# About this User Manual

EN

This manual contains all information you will need to initially install and operate your new TV.
Also read the help texts which are being displayed at the bottom of the screen.

*If this instruction manual does not give an answer or if 'Troubleshooting' does not solve your TV problem, you can call your Local Philips Customer or Service Centre. See the supplied Worldwide guarantee booklet.*

*Please, have the Model and Product number which you can find at the back or the bottom of your television set or on the packaging, ready, before calling the Philips customer support service.*

*Model: 32PF9731D/10*
*Product No: .....*

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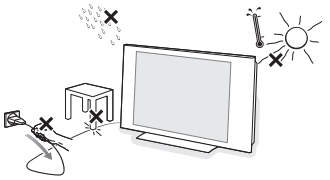
# Safety warnings

## General

**Do not insert the power plug in a wall socket or hang the TV to the wall before all connections are made.**

- Place or hang the TV wherever you want, but make sure that air can circulate freely through the ventilation slots.



- Do not install the TV in a confined space such as a book case or a similar unit.
- To prevent any unsafe situations, no naked flame sources, such as lighted candles, should be placed in the vicinity.
- Avoid heat, direct sunlight and exposure to rain or water.
- The equipment shall not be exposed to dripping or splashing.

## Care of the screen

Do not touch, push or rub or strike the screen with anything hard as this may scratch, mar or damage the screen permanently.
And please do not rub with dust clothes with chemical treatment.
Do not touch the surface with bare hands or greasy cloth (some cosmetics are detrimental to the screen). Unplug the TV before cleaning the screen.
When the surface becomes dusty, please wipe gently with absorbent cotton or other soft materials like chamois soaks. Do not use acetone, toluene and alcohol because they cause chemical damage. Do not use liquid cleaners or aerosol cleaners. Wipe off saliva or water drops as soon as possible. Their long time contact with the screen causes deformations and colour fading.

## Stationary images on the TV screen

A characteristic of LCD panels is that displaying the same image for a long time can cause a permanent after-image to remain on the screen. This is called phosphor burn in. Normal use of the TV should involve the showing of pictures that contain constantly moving and changing images that fill the screen.

Examples of stationary images (this is not an all-inclusive list, you may encounter others in your viewing):

- TV and DVD menus: listings of DVD disk content;
- Black bars: when black bars appear at the left and right side of the screen, it is recommended to change to a picture format so that the picture fills the entire screen;
- TV channel logo: present a problem if they are bright and stationary. Moving or low-contrast graphics are less likely to cause uneven aging of the screen;
- Stock market stickers: presented at the bottom of the TV screen;
- Shopping channel logos and pricing displays: bright and shown constantly or repeatedly in the same location on the TV screen.
  Examples of still pictures also include logos, computer images, time display, teletext and images displayed in 4:3 mode, static images or characters, etc.

**Tip**: reduce contrast and brightness when viewing.

## Electric, Magnetic and Electromagnetic Fields ("EMF")

- Philips Royal Electronics manufactures and sells many products targeted at consumers, which, like any electronic apparatus, in general have the ability to emit and receive electro magnetic signals.
- One of Philips' leading Business Principles is to take all necessary health and safety measures for our products, to comply with all applicable legal requirements and to stay well within the EMF standards applicable at the time of producing the products.
- Philips is committed to develop, produce and market products that cause no adverse health effects.
- Philips confirms that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today.
- Philips plays an active role in the development of international EMF and safety standards, enabling Philips to anticipate further developments in standardisation for early integration in its products.



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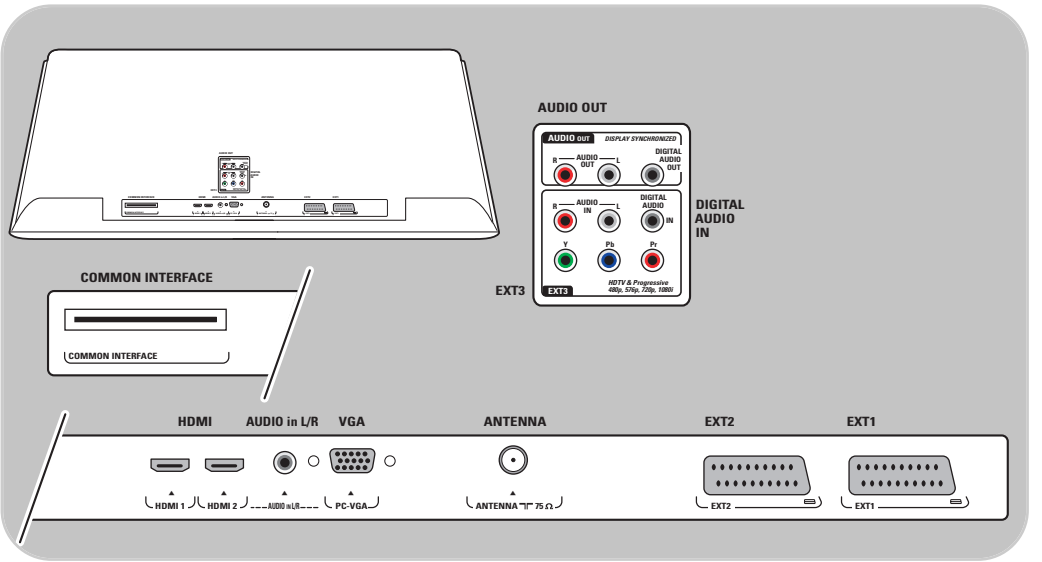
## Before you start

**Warning**: do not insert the mains cord into the mains at the bottom of the TV and in a wall socket or hang the TV on the wall before all connections are made.

Before you switch on your TV, connect all your peripheral equipment. See To make video and audio connections, p. 44.

## Overview of the rear connector panel

There is a wide range of audio and video equipment that can be connected to your TV. See To make audio and video connections, p. 44.




**EXT1** can handle CVBS, RGB and Audio L/R;
**EXT2** can handle CVBS, S-VIDEO, RGB, Audio L/R;
**EXT3** can handle YPbPr and Audio L/R;
**HDMI 1** and **2**.
**VGA** can handle VGA, SVGA, XGA and 480p, 576p, 1080i and Audio L/R.

**Supported video formats**: 480i, 480p, 576i, 576p, 720p, 1080i.

**Warning**: disconnect all power sources before making any connections.

**Tip**: it is preferable to connect peripherals with RGB output to **EXT1** or **EXT2** as RGB provides a better picture quality.



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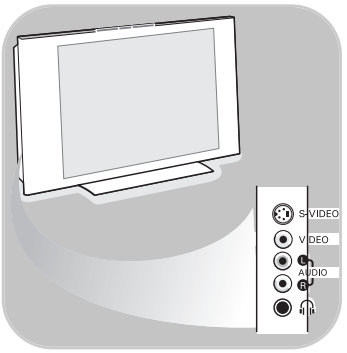


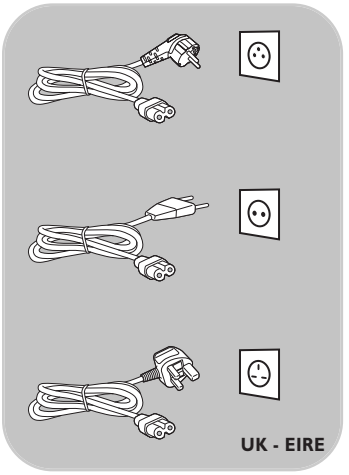

## Overview of the side connector panel

- To connect a camera, camcorder or game, see To make video and audio connections, p. 45.
- To connect a headphone, see To make video and audio connections, p. 45.
- To connect a USB device or memory card, see Multimedia browser, p. 38.

## Connect the antenna

◦ Insert the aerial plug firmly into the aerial socket at the bottom of the TV.

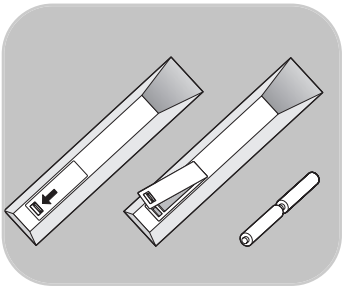
**Tip**: for best quality use the suppressor cable supplied.




## Connect the mains

◦ Insert the mains cord supplied into the mains at the bottom of the TV and in the wall socket.

**Warning**: verify that the mains supply voltage corresponds to the voltage printed on the sticker at the rear of the TV.



## Remote control

◦ Insert the 2 batteries supplied (Type R6-1,5V).
Be sure the (+) and (-) ends of the batteries line up correctly (inside of case is marked.)

For most keys pressing a key once will activate the function. Pressing a second time will de-activate it.



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**Standby**
Press to switch the TV from or to standby mode.
When switched to standby, a red indicator on the TV lights up.

**Attention**: the TV is never powered off completely unless it is physically unplugged.

**TV** Press to select TV mode.

**DVD STB VCR AUX**
Press to select one of the system modes in which the remote control can be used.
See Audio and Video equipment keys, p. 55.

**DEMO** Press to switch the Demo menu on or off.

**Colour keys**
- When functions are attached to the colour keys, the colour keys are shown on screen.
- To select a page in Teletext mode.

**OPTION**
- To open and close the Quick access menu which contains a few frequently used options, like Picture format.
- When in teletext, press repeatedly to enlarge the teletext page display. See Teletext, p. 42.

To open and close the Electronic Programme Guide.
See EPG (Electronic Programme Guide), p. 36.

**Cursor keys**
Press the cursor keys up/down, left/right to navigate through the menus.

**OK** - To activate a setting;
- Starts playing content in the Multimedia Browser application.

**BROWSE/MENU**:
To open and close the main menu. See How to navigate through the menus, p. 11.

**Teletext On/Off**
Press to switch teletext on. See Teletext, p. 41.
Only for UK: Digital text/Interactive services.

**Attention**: not all channels transmit interactive television applications at all times.

**Volume**
Press + or - to adjust the volume.

**Mute key**: interrupt the sound or restore it.



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### +P- Channel selection

- to browse through the TV channels and sources stored and marked in the Favourite channels lists;
- to select a page in Teletext mode;
- to quickly browse through the lists in the menus;
- to switch the TV on from standby mode.

### 0/9 Digit keys

To select a TV channel between 0 and 999.

### AV Select your peripherals

See Installation menu, Select your connections, p. 33.

### P↩P Previous channel

Press to alternate between the currently viewed and the previously viewed TV channel.

### Ambilight - MODE

**Ambilihgt**: press to switch Ambilight On or Off. For the Ambilight settings, see Use of the TV menu settings, Enjoy Ambilight, p. 20.
**MODE**: press this key repeatedly to toggle through the Ambilight modes.

**Note**: when the TV is switched to standby, and you switch Ambilight On, Ambilight will be active. Only then less modes are available.

### ◀◀ ■ ▶ ▶▶ Audio and Video equipment keys

See Audio and Video equipment keys, p. 55.
See Multimedia browser functional keys, p. 40.

### ■ CANCEL

Only for UK: Digital text/Interactive services.
Press this key to cancel those special services (and the function bar at the bottom of the screen).

● no function

### i+ On screen information

Press to display (when available) information about the selected TV channel and programme.

### 1 2 Dual screen

Press the 1 2 key to show teletext on the right of the screen.

### FAV To display the channels list.

You can create up to four favourite lists.

**Note**: to set the remote control to work a Philips DVD or DVD/R, see p. 57.



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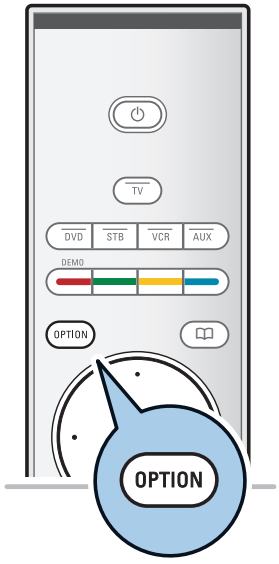
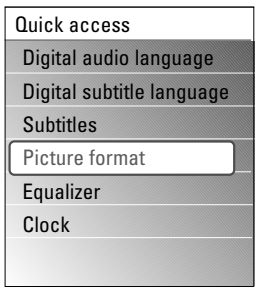
## Use of the OPTION key




The **OPTION** key allows you to display the Quick access menu which will give you direct access to some features and menu options.

1. Press the **OPTION** key.
   ▹ The Quick access menu appears.
2. Press the cursor up/down to select a menu item.
3. Press the **OK** key to jump to the selected menu item in the TV menu. (Except for the Clock option).
4. Use the cursor keys to make a selection.
5. Press the **OPTION** key to exit.

**Note**: digital related menu items will only be accessible in case of digital TV broadcasting.

**Digital audio language**:
See Adjust sound menu settings, p. 18.

**Digital subtitle language**:
See Adjust feature menu settings, p. 23.

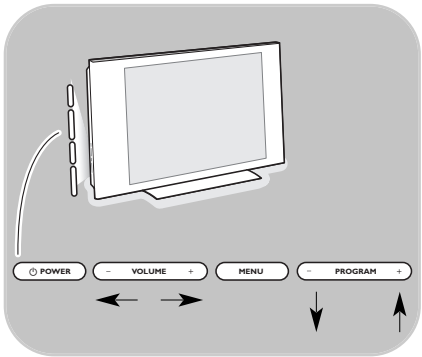
**Subtitles**:
See Adjust feature menu settings, p. 23.

**Picture format**:
See Use of the TV menu settings, Adjust picture menu settings, p. 17.

**Equalizer**:
See Use of the TV menu settings, Adjust sound menu settings, p. 18.

**Clock**:
◦ Select to activate/deactivate the clock display on the screen.

## Keys at the left side of the TV




In case your remote is lost or broken, apart from channel selection and volume adjustment, you can still change some of the basic settings with the keys at the side of your TV.

◦ Press the power switch ⏻ to switch the TV on or off.

The **MENU** key can be used to summon the TV menu without the remote control.

◦ Use:
- the **VOLUME -** and + keys and the **PROGRAM/CHANNEL -** and **+** keys to select menu items;
- the **MENU** key to confirm your selection.



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# Introduction: Digital TV

Next to analogue broadcast reception, your TV has a built-in TV tuner which receives, decodes and displays digital terrestrial signals.
Digital TV and radio channels are only available and reproduced:
- when Digital Video Broadcasting Terrestrial (DVB-T) is applicable in your local area;
- and if DVB-T signal is supported by your TV for the country you live in. See www.philips.com/support for the list of supported countries.

# Switch the TV on

- Press the power switch ⏻ at the side of the TV.
  - ▹ An indicator on the front of the TV lights up and the screen comes on.
- If the TV is in standby mode, press the **-P+** keys or the ⏻ key on the remote control.

**Note**: the first time (and only the first time) you switch on your TV, you see a Welcome screen followed by the installation procedure. See First time installation, p. 8.

# First time installation

The first time (and only the first time) you switch on your TV, you see a Welcome screen followed by the installation procedure.
The installation procedure consists of a series of screens that will guide you through the installation of your TV.
Follow the instructions on screen.

**Note**: if the TV has already been installed before and/or you want to change the First time installation settings, proceed with Use of the TV menu settings, p. 13.



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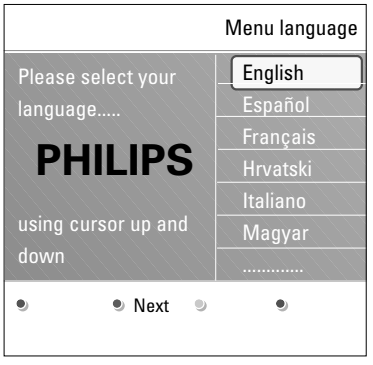


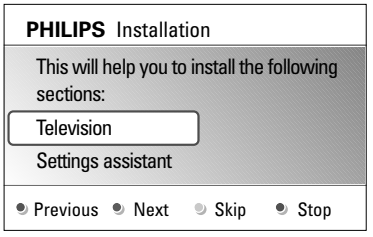


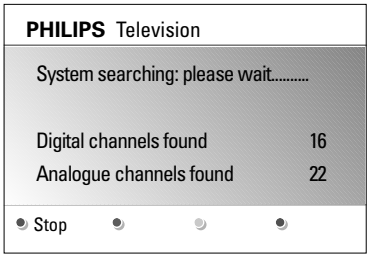


## Step 1: select your on-screen language

After the Welcome screen you are asked to select a language of the TV's on-screen menus. The text of the header and the info on screen continuously change language. Also the digital audio and subtitle language will be set to the selected menu language.

1. Press the cursor up/down to highlight your language.
2. Press the **OK** key on the remote control.
3. Follow the instructions on screen to proceed.

## Step 2: complete the initial TV installation procedure

1. Press the green colour key on your remote control when **Television** is highlighted.
2. Select the country where you are now located.

**Notes**:
- if you select a wrong country, the channel numbering will not be according to the standard for your country.
- in case the country selected is not DVB-T supported by your TV, digital related menu-items will not be accessible.

3. Press the green colour key on your remote control to start the Automatic channel installation.
   ▹ All available digital TV and radio channels and analogue TV channels are searched for and stored automatically. This will take a few minutes. When the search is complete, the menu will indicate the number of digital and analogue channels found.

**Notes**:
- reception of digital terrestrial TV channels is applicable dependent on the country selected;
- if you choose to install the channels at a later time, select the Automatic installation in the TV menu, Installation, Channels to scan available channels.

4. Press the red colour key again when the search is completed.



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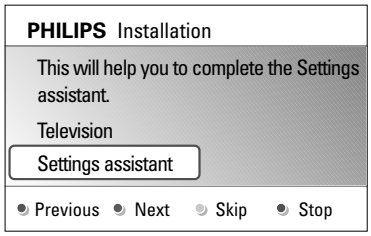


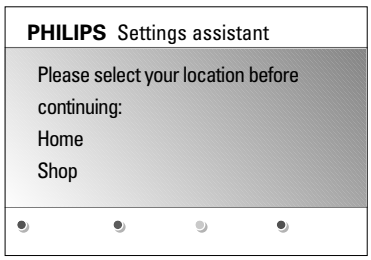


## Step 3: Settings assistant: select your TV settings

By means of several split screens/full screens you are prompted to select your preferred picture, sound and ambilight settings, to finally arrive at a complete setting which satisfies you.

1. Press the green colour key on your remote control to enter the **Settings assistant** menu.
2. Select your Location with the cursor up/down.
   - ▹ If you choose **Shop** it will skip the Settings assistant. The TV parameters for picture, sound and ambilight will then be set to predefined fixed settings.

   Press the green colour key again to proceed.
   - ▹ If you choose **Home** it will display the Settings assistant.
3. Use the cursor left/right to each time select your preferred screen.
4. Press the green colour key to each time confirm your selection and to jump to the following screen.
   - ▹ The following items will be presented sequentially. In the header it is mentioned how many screens have been completed and how many screens there are in total.

   The Settings assistant will step sequentially through the settings of picture, sound and ambilight.
5. Press the green colour key again to store all the settings and to return to the TV installation menu.

**Note**: when you skip or stop the Settings Assistant, then the Standard settings Philips selected for you will be chosen.

6. Press the red colour key again to finish the First time installation procedure and to display the first stored TV channel.

**Note**: any time you can change or reset your settings or adjust individual settings for picture, sound and ambilight in the TV settings menu. See p. 14, Use of the TV menu settings.
To control the settings of special TV functions, features and accessory equipment, see p. 23, Adjust feature menu settings.



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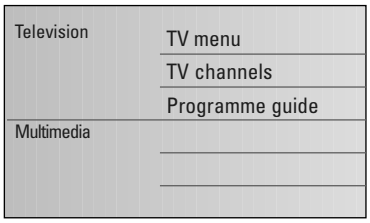


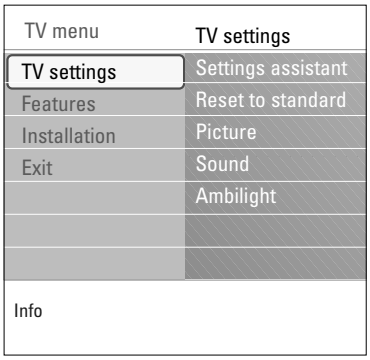


## Introduction

A lot of guiding instructions, help texts and messages will be displayed on your TV when you use the menus or when you try to execute an action.
Read the help texts which are being displayed on the specific item highlighted.
The colour keys at the bottom of the screen refer to the different actions which may be executed.
Press the corresponding colour key on the remote control to perform the required or desired action.

**Note**: digital related menu items will only be accessible in case of digital TV broadcasting.

1. Press the **MENU/BROWSE** key on the remote control.
   ▹ The main menu appears on the screen.
   - **TV menu** allows you to access the TV menu. See below.
   - **TV channels** allows you to access the TV channel list and to create up to four favourite lists with your preferred TV channels and digital radio stations. See Create your favourite channel list, p. 35.
   - **Programme guide** allows you to access detailed information about individual digital TV programmes. According to the type of Electronic Programme Guide, it also allows you to access the table of scheduled Digital TV programmes and easily select and tune to a desired programme.
     See EPG, Electronic Programme Guide, p. 36.
   - **Multimedia** allows you to access the Multimedia browser application. It lets you display your personal multimedia files. Multimedia is only present when a USB device is connected. See Multimedia browser, p. 38.
2. Use the cursor up/down to highlight and select a menu item.
3. Use the cursor right to enter the highlighted menu item.
   ▹ The right panel shows the content of the highlighted menu item.



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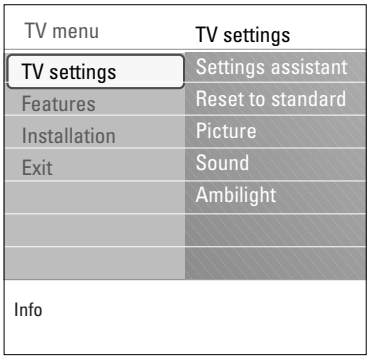
# How to navigate through the menus (continued)




4. Use the cursor up/down to select a menu item.
   - **TV settings** allows you to adjust your preferred picture, sound and ambilight settings
   - **Features** allows you to control the settings of special TV features
   - **Installation** allows you
     - to select your language preferences;
     - to search for and store your TV channels;
     - to set or adjust various special functions;
     - to select connected peripheral equipment;
     - to define one or more channel numbers as decoder channel numbers;
     - to reset your picture, sound and ambilight settings to the factory standard settings;
     - to upgrade your TV software.
5. Press the cursor right to enter the highlighted menu item.
   ▹ The content of the right panel is moved to the left panel and the right panel now shows the content of the newly highlighted item in the left panel.

**Note**: in some cases it is important that the picture can be watched while you adjust the settings. This means that when the highlight is on the right side panel, the other menu items hide away. When the cursor left is pressed, the hidden menu items reappear and the highlight moves to the left panel.

6. Press the **MENU/BROWSE** key to exit the main menu.



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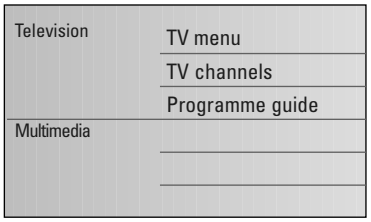
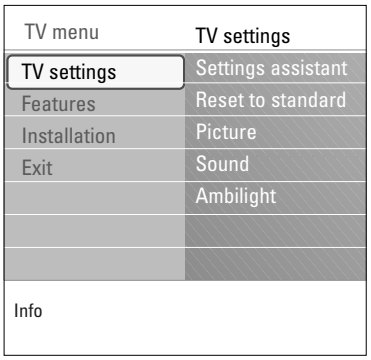



The TV menu allows you to access and change settings and preferences in case you want to change the First time installation settings and/or you want to control the settings of special TV functions, features and peripheral equipment.




## Adjust viewing and listening settings

1. Press the **MENU/BROWSE** key on the remote control.
   ▹ The main menu appears on the screen.
2. Select **TV menu** and press the cursor right.
   ▹ The TV menu is displayed.
3. Select **TV settings** and press the cursor right.
   ▹ The TV settings menu is moved to the left.
4. Press the **MENU/BROWSE** key to exit the menu.

To make it easier to change the settings of the TV, there are 3 ways of doing it.

### A. Change settings in an easy-to-use manner with the Settings assistant

Each time you've made a selection, press the green key to confirm your selection.

1. Select **Settings assistant** and press the cursor right.
   ▹ By means of several split screens/full screens you are prompted to select your preferred picture, sound and ambilight settings to finally arrive at a complete setting which satisfies you.
   See First time installation, Step 3: Settings assistant: select your TV settings, p. 10.
2. Press the green colour key to return to the TV menu again.



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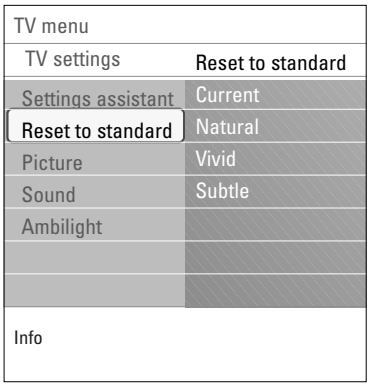


## B. Use of the Standard settings (if present)

This allows you to reset your settings for viewing and listening to predefined factory settings.

1. Select **Reset to standard** and press the cursor right.
   - ▹ A menu appears which allows you to select one of the standard settings for viewing and listening.
   - ▹ **Current** shows your current settings for viewing and listening.
   - ▹ If you select **Natural**, it allows you to set your picture, sound and ambilight settings to the recommended standard values. In most cases this will give the best balanced viewing experience.
   - ▹ If you select **Vivid**, it allows you to set your picture, sound and ambilight settings to rich values, making use of the TV capabilities to its full extend.
   - ▹ If you select **Subtle**, it allows you to set your picture, sound and ambilight settings to the purest representation of the original source content.
2. Press the green colour key to store the selected setting.

## C. Individual settings for picture, sound and ambilight

- ◦ Select **Picture**, **Sound** or **Ambilight** and press the cursor right.
  - ▹ A menu appears which allows you to fine tune the picture, sound and ambilight settings.
  - ▹ To adjust the Picture settings, see Adjust picture menu settings, p. 15.
  - ▹ To adjust the Sound settings, see Adjust sound menu settings, p. 18.
  - ▹ To adjust the Ambilight settings, see Enjoy Ambilight, p. 20.



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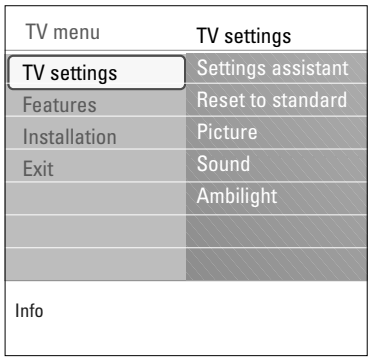
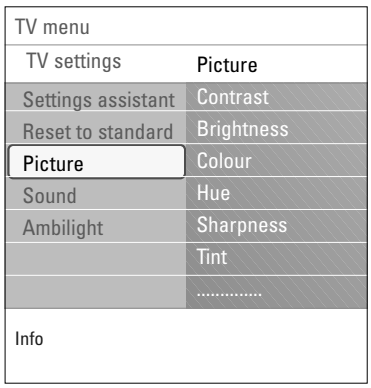
# Adjust picture menu settings




The picture menu contains the settings that affect the quality of the picture.

1. Press the **MENU/BROWSE** key on the remote control.
   ▹ The main menu appears.
2. Select **TV menu** and press the cursor right.
   ▹ The TV menu is moved to the left.
3. Select **TV settings** and press the cursor right.
   ▹ The TV settings menu is moved to the left panel.
4. Select **Picture** and press the cursor right.
   ▹ The Picture menu is moved to the left panel.
5. Use the cursor up/down to select the Picture menu items.
6. Press the cursor right to enter the selected Picture menu item.

**Note**: all digital related menu items will only be accessible in case of digital TV broadcasting.

7. Use the cursor keys to adjust the settings.
8. Press the cursor left to return to the Picture menu.

**Contrast**

Adjusts the intensity of bright parts in the picture but keep the dark parts unchanged.

**Brightness**

Adjusts the light output of the complete picture, which will mainly affect the darker areas of the picture.

**Colour**

Adjusts the saturation level of the colours to suit your personal preference.

**Hue**

Compensates for the colour variations in NTSC encoded transmissions.

**Sharpness**

Adjusts the sharpness of fine details in the picture.

**Tint**

Increases or decreases **Warm** (red) and **Cool** (blue) colours to suit personal preferences.

- Select **Cool** to give the white colours a blue, **Normal** to give the white colours a neutral, **Warm** to give the white colours a red tint.
- Select **Custom** to make a customised setting in the Custom tint menu item.



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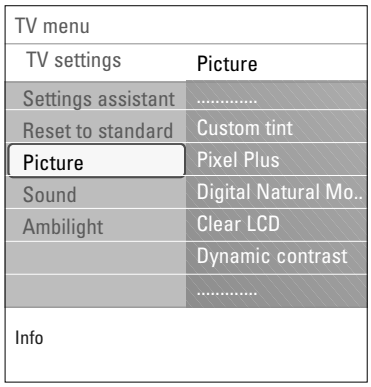
# Adjust picture menu settings (Continued)




**Custom tint** (only when Tint is set to Custom)

Fine tunes the white point (**WP**) and black level (**BL**) of the picture.

1. Select **Custom tint** and press the cursor right.
2. Use the cursor keys to select and adjust the settings of:
   **R-WP**: allows you to customise the colour tint by adjusting the red whitepoint of the picture.
   **G-WP**: allows you to customise the colour tint by adjusting the green whitepoint of the picture.
   **B-WP**: allows you to customise the colour tint by adjusting the blue whitepoint of the picture.
   **R-BL**: allows you to customise the colour tint by adjusting the red blacklevel of the picture.
   **G-BL**: allows you to customise the colour tint by adjusting the green blacklevel of the picture.
3. Use the colour keys to reset to the predefined settings.
4. Press the cursor left to return to the Picture menu.

**Pixel Plus**

Pixel Plus is the most ideal setting, as it fully processes the image to make every single pixel the best it can be, improving contrast, sharpness, picture depth, and colour reproduction and brilliance from every source, including High Definition.

- Select **On** or **Off** in order to activate/de-activate Pixel plus.

**Digital Natural Motion**

Reduces the field and line flicker and reproduces smooth movement especially in movies.

- Select **Off**, **Minimum** or **Maximum** in order to really see the difference in picture quality.

**Clear LCD**

Clear LCD results in superior sharpness of motion reproduction, better black level,high contrast with a flicker-free, quiet image and a larger viewing angle.

**Dynamic contrast**

Automatically makes the contrast in the darker and the brighter picture areas more noticeable as the image on the screen changes.

- Normally select **Medium**. It may be preferred to select **Minimum**, **Maximum** or **Off**.



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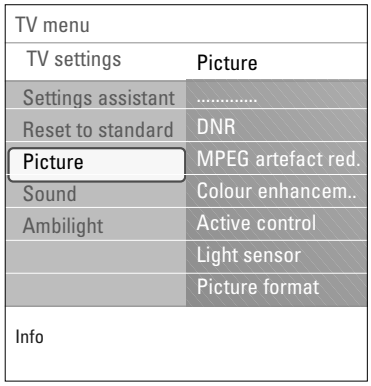



## DNR

**DNR** automatically filters out and reduces the image noise. This improves picture quality when receiving weak signals.

- Select **Off**, **Minimum**, **Medium** or **Maximum** according to the image noise in the picture.

## MPEG artefact reduction

**MPEG artefact reduction On** smoothens the transitions on digital content.

- Select **On** or **Off**.

## Colour enhancement

Automatically controls green enhancement and blue stretch. It makes the colours more vivid.

- Select **Off**, **Minimum**, **Medium** or **Maximum**.

## Active control

The TV continuously measures and corrects all incoming signals in order to provide the best picture possible.

- Select **On** or **Off** to activate/de-activate Active control.

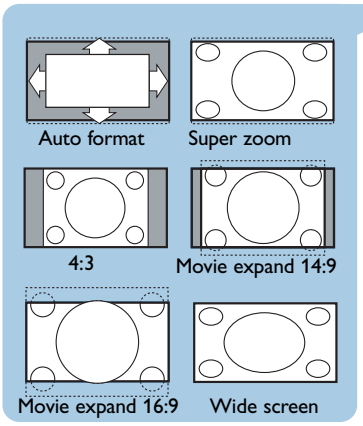
## Light sensor

**Light sensor On** automatically adjusts the picture and ambilight settings for best viewing dependent on the lighting conditions in the room.

- Select **On** or **Off**.

## Picture format

This allows you to adjust the size of the picture dependant on the broadcasted format and your preferred setting.
How to navigate through the TV settings menu, see p. 13: Use of the TV menu settings.




**Tip**: this function is also accessible via the **OPTION** key on the remote control.

Choose among the following picture formats: Auto format, Super zoom, 4;3, Movie Expand 14:9, Movie Expand 16:9 or Wide screen.
Auto format makes the picture fill the screen as much as possible.
In case of subtitles in the bottom black bar, Auto format makes the subtitles visible.
In case of a broadcaster logo in the corner of the top black bar, the logo disappears from the screen.
Super zoom removes the black bars on the sides of 4:3 programmes with minimal distortion.
When in Movie Expand 14:9, Movie Expand 16:9 or Super zoom screen format, you can make subtitles visible with the cursor up/down.

**Note**: with HD sources not all picture formats will be available.



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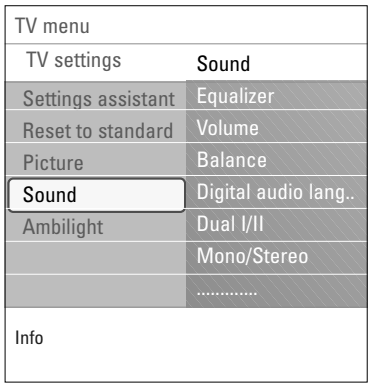
# Adjust sound menu settings




The sound menu contains the settings that affect the quality of the sound.

1. Press the **MENU/BROWSE** key on the remote control.
   ▹ The main menu appears.
2. Select **TV menu** and press the cursor right.
   ▹ The TV Menu is moved to the left.
3. Select **TV settings** and press the cursor right.
   ▹ The TV settings menu is moved to the left panel.
4. Select **Sound** and press the cursor right.
   ▹ The Sound menu is moved to the left panel.
5. Use the cursor up/down to select the Sound menu items.
6. Press the cursor right to enter the selected Sound menu item.

**Note**: dependent on the input signal, one or more menu items may not be selectable.

7. Use the cursor keys to adjust the settings.
8. Press the cursor left to return to the Sound menu.

### Equalizer

Allows you to change the frequency response of the sound to match your personal taste.

**Tip**: this function is also accessible via the **OPTION** key on the remote control.

### Volume

Allows you to adjust the sound output level.

### Balance

Allows you to adjust the output of the right and left speakers to obtain the best stereo reproduction for your listening position.

### Digital audio language (only with Digital TV broadcasting)

Allows you to select an audio language out of the list of the available broadcasted languages for the current digital programme.

**Note**: if there is more than one variant for an audio language, then select one of the variants.
To permanently change the audio language, use the Language menu in the Installation menu.

**Tip**: this function is also accessible via the **OPTION** key on the remote control.



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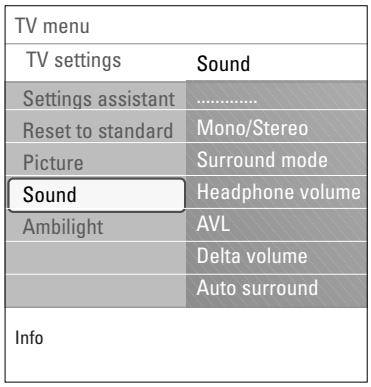


### Dual I/II

Allows you to select, per channel, **Dual I** or **Dual II,** when dual sound transmission is available.

### Mono/Stereo

Allows you to select, per TV channel, **Mono** or **Stereo** sound when stereo broadcasts are available.

### Surround mode

Allows you to select the modes for more spatial or surround sound reproduction dependent on the broadcasted signals or signals from external inputs received.

### Headphone volume

Allows you to control the level of sound through the headphones.

### AVL (Automatic Volume Leveler)

Automatically reduces the volume differences between channels and programmes, providing a more constant overall level. This will also reduce the dynamics of sound.

### Delta volume

Allows you to correct for any permanent volume differences between TV channels or external sources.

### Auto surround

When switched **On**, this allows the TV to automatically switch to the best surround sound mode the broadcaster transmits.



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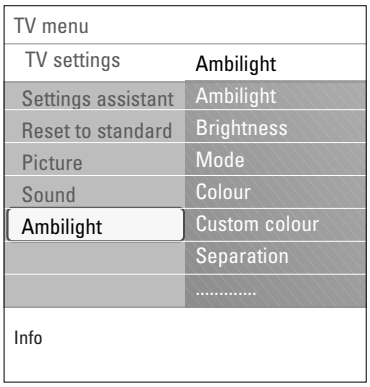
# Enjoy Ambilight




The ambilight menu contains the settings for controlling the ambient lighting. Using ambient light gives a more relaxed viewing experience and improves perceived picture quality. Analysis of the picture content adapts the colours continuously. But the lights can also be set to any fixed colour and many shades of white.

**Tip**: in standby mode the lights can be set/operated to any colour and create a unique ambiance in the room. See Ambilight in standby mode, p. 22.

1. Press the **MENU/BROWSE** key on the remote control.
   ▹ The main menu appears.
2. Select **TV menu** and press the cursor right.
   ▹ The TV Menu is moved to the left.
3. Select **TV settings** and press the cursor right.
   ▹ The TV settings menu is moved to the left panel.
4. Select **Ambilight** and press the cursor right.
   ▹ The Ambilight menu is moved to the left panel.
5. Use the cursor up/down to select the Ambilight menu items.
6. Press the cursor right to enter the selected Ambilight menu item.
7. Use the cursor keys to adjust the settings.
8. Press the cursor left to return to the Ambilight menu.

### Ambilight

Allows you to switch the lights On or Off at the rear of the TV.

- Select **Off** to switch off the ambient lights and downlight all other ambilight menu items.
- Select **On** to switch on the ambient lights. Refine the light settings in the menus below.

### Brightness

Allows you to adjust the light output of the ambilights.



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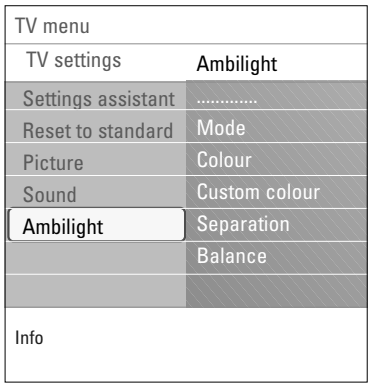


## Mode

Allows you to choose for constant background lighting or for background lighting that matches the images displayed on the screen.

◦ Use the cursor keys to select Colour, Relaxed, Moderate or Dynamic.
- **Colour**: this will show constant light according to the settings in the Colour menu below. It allows manual fine tuning in the next Ambilight menu items.
- The options **Relaxed**, **Moderate** or **Dynamic** will dynamically match brightness and colour to the screen content. The selection made will effect the speed which determines the viewing impression.
  For example:
  - in **Relaxed** mode, the rate of brightness and colour change, as predefined in the factory, is smoothly and soft which gives you an immersive yet relaxed viewing.
  - in **Moderate** mode the rate of brightness and colour change can be experienced as between Relaxed and Dynamic.
  - in **Dynamic** mode the rate of brightness and colour change is more quick and dynamic. This gives you full immersion and involvement with the screen content.

**Notes**:
- the rate of change is limited, as not to cause uncomfortable sensations;
- according to the selection made, some Ambilight menu items will be downlighted and can not be selected.

## Colour

**Note**: only available when Colour has been selected in the Mode menu above.

Allows you to select or adjust the colour of the light to your own personal choice.
- **Warm white** is matched to that of most normal lightbulbs. Select this setting if you want the Ambilight to fit best with normal living room lighting.
- **Cool white** is matched to that of normal daylight (6500K). Select this setting if you prefer more cool lighting.

  **Note**: the 6500K is the SMPTE recommended setting for ambient backlighting of displays.

- **Blue**: preferred by most consumers to create a cool, modern and/or mystical atmosphere. Select this setting according to your personal taste or mood.
- **Red**: preferred by most consumers to create a cosy, special atmosphere. Select according to your personal taste or mood.
- **Custom**: select if you want to customise the ambilight colour.



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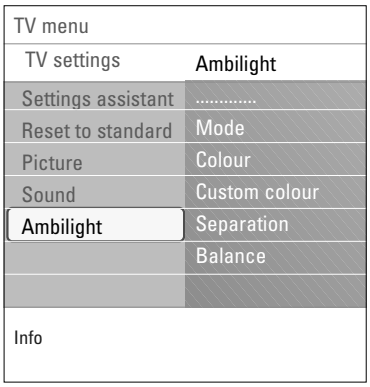


### Custom colour

**Note**: only available when Custom has been selected in the Colour menu.

Allows you to customise the ambilight colour.

- Select **Palette** to select the general colour of the light output.
- Select **Saturation** to adjust the colourfulness of the light.

### Separation

Allows you to define the stereo effect in case, Relaxed, Moderate or Dynamic has been selected in the Mode menu.

- Select **Off** for a mono behaviour which means that all lamps will behave equally.
- Select **Minimum**, **Medium** or **Maximum** to define the Ambilight stereo effect spread over the available lamps.

### Balance

Allows you to adjust the colour and level of light intensity on the sides of the picture.

## Ambilight in standby mode

When the TV is switched off, the ambient lights will also be switched off. When the TV is in standby mode, ambilight can be used to provide a unique ambience for the room.

- Press the **Ambilight** key on the remote control to switch between Ambilight On or Off. See Use of the remote control, p. 6.
- Press the **MODE** key repeatedly to toggle through the Ambilight modes.

**Note**: when the TV is switched to standby, and you switch Ambilight On, then less Ambilight modes are available.

**Caution**: Infrared interference
To avoid bad infrared remote control reception, place your peripheral equipment out of sight of the ambient lights of your TV. Ambilight does not function well when the room temperature is less than 59°F/15°C.



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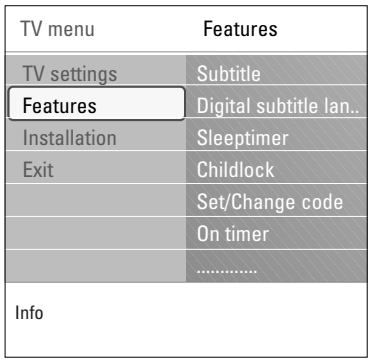


The Features menu allows you to control the settings of special TV functions, features and accessory equipments.

1. Press the **MENU/BROWSE** key on the remote control.
   ▹ The main menu appears.
2. Select **TV menu** and press the cursor right.
   ▹ The TV Menu is moved to the left.
3. Select **Features** and press the cursor right.
   ▹ The Features menu is moved to the left panel.
4. Use the cursor up/down to select the Features menu items.
5. Press the cursor right to enter the selected Features menu item.
6. Use the cursor keys to adjust the settings.
7. Press the cursor left to return to the Features menu.

### Subtitle

This displays Teletext and DVB-T subtitles from the selected TV channel. These can be permanently displayed, or only when mute is active. The teletext subtitle page of analogue channels must be stored for each TV channel.

1. Switch on teletext and select the proper subtitle page from the index.
2. Switch off teletext.
3. Select
   - **Subtitle On** to display the subtitles on the selected TV channels.
   - **On during mute** to automatically display the subtitles only when the sound has been muted with the 🔇 key on the remote control.

**Tip**: this function is also accessible via the **OPTION** key on the remote control.

### Digital subtitle language (only with Digital TV broadcasting)

This allows you to (temporarily) select your preferred subtitle language out of the list of the broadcasted languages for the current programme.

**Note**: to permanently change the subtitle languages, use the Language menu in the Installation menu.

◦ Use the cursor up/down to temporarily overrule your permanent language selection and confirm with the **OK** key.

**Tip**: this function is also accessible via the **OPTION** key on the remote control.



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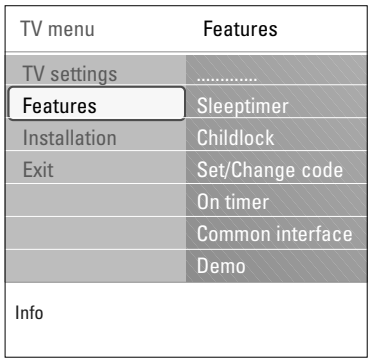
# Adjust feature menu settings (Continued)




## Sleeptimer

This sets a time period after which the TV automatically switches to standby.

1. Select **Sleeptimer**.
2. Press the cursor right.
3. Select a value with the cursor up/down.
   ▹ The list will have values from 0 to 180 minutes. When 0 is selected, the sleeptimer is switched off.

**Note**: you can always switch off your TV earlier or select another time set.

## Childlock

With a 4-digit code, you are able to lock TV channels and external sources to prevent children from watching certain programmes.

1. Select **Childlock**.
2. Press the cursor right to enter the Childlock menu.
3. Enter your 4-digit code.

**Note**: you have to re-enter your code each time you enter the Childlock menu.

4. Select one of the menu items of the Childlock menu and press the cursor right:
   - **Lock** to lock all channels and externals:
   - **Custom lock** to lock a certain programme or to lock all the channels from a certain time.
   ◦ Select:
   - **Lock after** to lock all programmes from a certain time onwards.
   ◦ Press the cursor right twice.
   ◦ Select **On** to set the lock.
   ◦ Press the cursor left.
   ◦ Select **Time** and press the cursor right.
   ◦ Enter the time with the cursor up/down and right.
   - **Channel lock** to lock a certain TV channel or external.
   ◦ Press the **OK** key to activate/deactivate.
   - **Parental rating** to set an age rating to a digital programme if the programme is parental rated. The ratings applied are according the selected country in the initial installation.
   ◦ Press the cursor right and select an age rating with the cursor up/down.
   - Select **Unlock** to disable all locks you have set.

**Important: you have forgotten your code !**

1. Select **Change code** and press the cursor right.
2. Enter the overriding code 8-8-8-8.
3. Enter a new personal 4-digit code.
4. Confirm your new entered code.

▹ The previous code is erased and the new code is stored.



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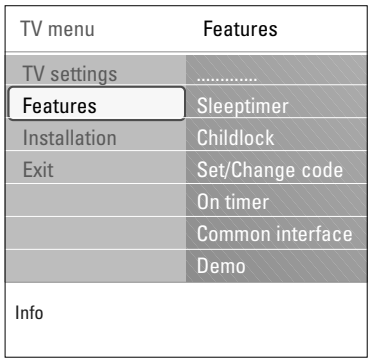


### Set code/Change code

This allows you to set or change the personal 4-digit access code that is used in the different lock functions of the TV.

- Select **Set** or **Change code**.
  - If no PIN-code exists yet, the menu item is set to **Set code**. Follow the instructions on screen.
  - If a PIN-code has previously been entered, the menu item is set to **Change code**. Follow the instructions on screen.
- Enter your code with the digit keys. All number combinations from 0000 to 9999 are valid numbers.
  - The Features menu reappears with a message confirming that your PIN-code has been created or changed.

### On timer

From standby, this automatically switches the TV to the specified channel number, at a specified time.

1. Select **On timer**.
2. Press the cursor right to enter the On timer menu.
3. Select **Timer** and press the cursor right.
4. Select **On**.
5. Select **Channel** and then the TV channel you want your TV to switch to on a selected time and day
6. Select **Day** and then a day of the week or select **Daily**.
7. Select **Time** and enter the time with the digit keys or with the cursor up/down.
8. Press the **OK** key to activate.
9. Press the cursor left to return to the Features menu or press the **MENU/BROWSE** key to switch off the menu.

**Note**: From now on, **every week**, your TV will automatically switch to the selected channel, on the selected day, at the selected time, until the On timer function is switched off again.



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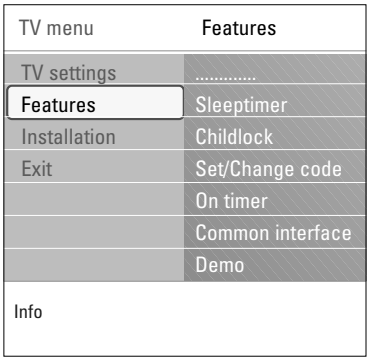
# Adjust feature menu settings (Continued)

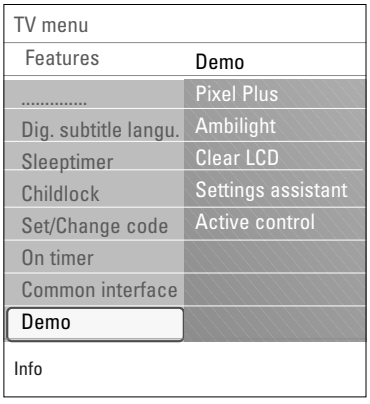



## Common interface

**Note**: this functionality is only available in certain countries.

This allows you to access common interface applications defined by the service provider of the Common Interface (CI) module.
The Common Interface (CI) module can contain one or more applications, which are used to communicate with the CI service provider and provide some additional facilities to the user.
See Use the Common Interface slot, p. 53.

**Note**: this menu item and the common interface applications are only displayed when an authenticated Common Interface card is present and some Common Interface card user interface sessions are listed.
The CI service provider is responsible for the messages and texts on screen. In case of failure or strange behaviour, you must call your CI service provider.




## Demo

This allows you to get an idea of the features that are part of the television.

1. Select **Demo**.
2. Press the cursor right.
3. Select a desired demo.
4. Press the **OK** key to start the demo.
   ▹ The selected demo is played once.
5. Press the red colour key to stop the demo and to return to the demo menu.
6. Press the red colour key to exit the demo menu.



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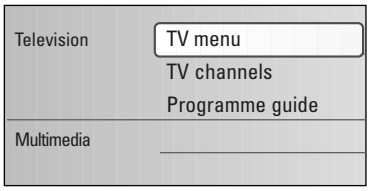
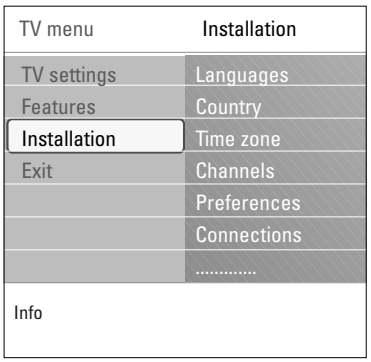
**Tip**: you will need this chapter only if you want to change the installation settings.

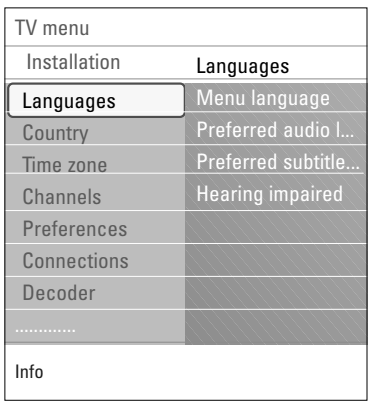



## Installation menu

This menu will adjust settings related to the installation of the TV channels, language and country and to the initial installation of your TV.

1. Press the **MENU/BROWSE** key on the remote control.
   ▹ The main menu appears.
2. Select **TV menu** and press the cursor right.
   ▹ The TV Menu is moved to the left.
3. Select **Installation** and press the cursor right.
   ▹ The Installation menu is moved to the left panel.
4. Use the cursor up/down to select the Installation menu items.
5. Press the cursor right to enter the selected Installation menu item.
6. Use the cursor keys to make a selection.
7. Press the **OK** key to activate or to confirm.
8. Press the cursor left to return to the Installation menu or press the **MENU/BROWSE** key to switch off the menu.




## Select your language preferences

This menu allows you to select your preferred language for menu, audio and subtitle.

### Menu language

This allows you to select your menu language out of the list of the available languages.

### Preferred audio language (only with Digital TV broadcasting)

This allows you to select your audio language preference in case several languages are broadcasted.

### Preferred subtitle language (only with Digital TV broadcasting)

This allows you to select your subtitle language preference in case several languages are broadcasted.

### Hearing impaired (only with Digital TV broadcasting)

This allows you to select the hearing impaired audio or subtitle language.
When set to **On**, the Hearing impaired version of your preferred audio or subtitle language will, if available, be reproduced.
When set to **Off**, the normal audio and subtitle language behaviour will be applicable.



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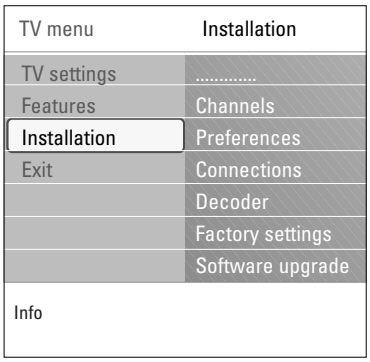
# How to search for and store TV channels (Continued)




## Select your country

This allows you to select the country where you are now located.

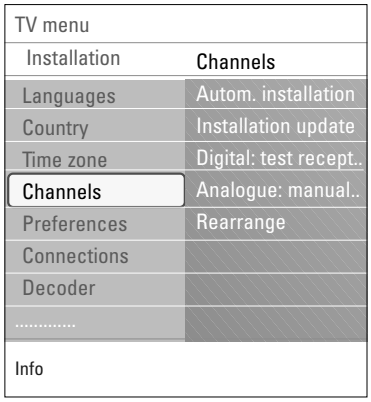
**Notes**:
- if you select a wrong country, the channel numbering will not be according to the standard for your country;
- in case the country selected is not DVB-T supported by your TV, digital related menu-items will not be accessible.

## Select the time zone (only with digital TV broadcasting)

Only applicable for certain countries and dependent on the selected country.

This allows you to select your local time zone so that the clock display shows the correct time.

## Store TV and radio channels




After language and country are set correctly, you can now search for and store the TV channels.

◦ Select **Channels** in the TV, Installation menu.

### Automatic installation

The TV will scan the entire frequency spectrum based on the selected country.

▹ All available digital and analogue TV and digital radio channels are searched for and stored automatically. This will take a few minutes.

▹ When the search is complete, the menu will indicate the number of digital and analogue channels found.



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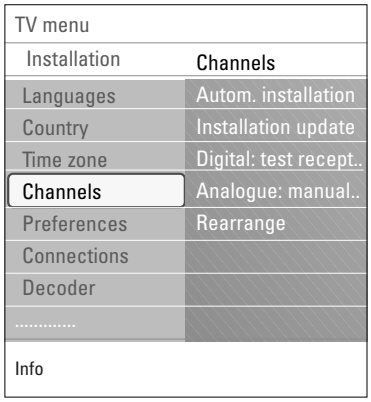


**Installation update** (only with digital TV broadcasting)

This allows you to automatically tune to and update all available digital channels without altering the sorting of existing channels. For example, the name of the channel is not altered.

**Notes**:
- this will not reinstall uninstalled channels;
- digital channels that are not encountered any longer will be removed;
- new channels found will not be added to any favourite list;
- already installed channels will not be renumbered.
- installation update happens automatically when your TV is in standby mode.

**Digital: test reception** (only with digital TV broadcasting)

This allows you to see the quality and the strength of the signal reception for a digital frequency. This enables you to find the antenna position that gives the best reception.

- Select **Digital: test reception** and press the cursor right.
  - You obtain an indication of the actual channel frequency, the network name, the signal quality and strength.
  - If the signal quality and strength is poor, you can try repositioning the aerial.

**Tip**: it is however advisable to contact a specialised aerial installer in order to achieve the best results.
You can also directly enter the frequency of the digital channels you want to test.



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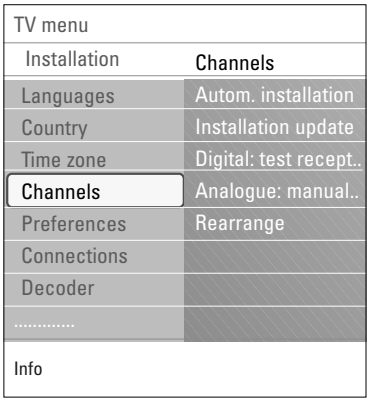


## Analogue: manual installation

This gives you the possibility to manually install (tuning-in channel by channel) analogue channels. Manual installation will not find nor store any DVB-T (digital) channels.

1. Select **Analogue: manual installation** and press the cursor right.
2. Select **System**.
3. Select your country or part of the world where you are now located.
4. Select **Search** and press the cursor right.
5. Select the red or green colour key to proceed.

**Tip**: if you know the frequency, enter the 3 digits of the frequency with the digit keys 0 to 9 (For example, 049).

6. Press the cursor left to store the channel found or to search for another channel.
7. Select **Fine tune** and press the cursor right.
   Fine tuning can be useful when the frequency has shifted a bit or when interference of another frequency occurs. Adjust the frequency with the cursor up/down in case of poor reception of the channel found.
8. Select **Store current channel** if you want to store the (fine tuned) frequency under the current channel number. Press the cursor right and confirm with the **OK** key.
   Select **Store as new channel** if you want to store the (fine tuned) frequency under a new channel number. Press the cursor right and confirm with the **OK** key.
9. Use the rearrange menu to rename or reshuffle the channels. See next page.

**Note**: when on a frequency where a DVB signal is broadcasted, the tuner will try to decode an analogue TV channel, and hence will not show video.



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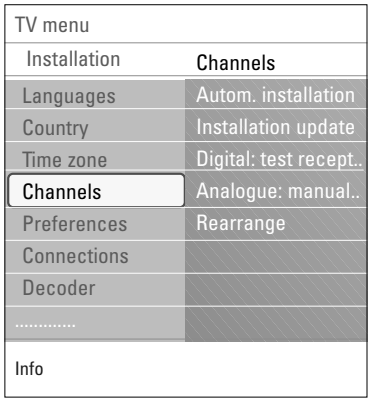


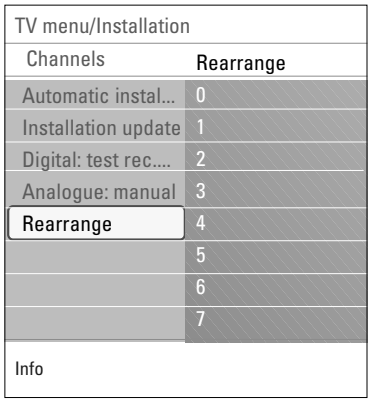


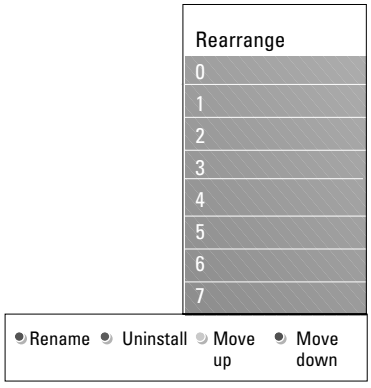


This allows you to rename, to reshuffle and to uninstall or reinstall the stored channels.

- Press the corresponding colour keys and follow the on screen instructions.

### Reshuffle

This allows you to change the order of the stored TV channels.

1. Select the channel you want to change place.
2. Press the yellow colour key to move up a single position in the list.
3. Press the blue colour key to move down a single position in the list.
4. Repeat to reshuffle other TV channels.

### Rename

This allows you to change the name stored in the memory or to assign a name to a channel or external for which a name has not yet been entered.

1. Select the channel you want to rename.
2. Press the red colour key on your remote control.
3. Select the characters with the cursor up/down. Select the following position with the cursor right.
4. Press the green colour key or the **OK** key when finished.

**Notes**:
- press the yellow colour key to delete all characters. The cursor is positioned at the beginning again;
- press the blue colour key to delete the character the cursor is positioned. Enter a new character with the cursor up/down;
- a name can be given to the channel numbers 0 to 999;
- space, numbers and other special characters are located between Z and A.

5. Select another channel number and repeat steps 2 to 5.

### Uninstall - reinstall

This allows you to uninstall a stored channel so that it is no longer possible to tune to. This also allows you to reinstall an earlier uninstalled channel.

1. Select the channel you want to uninstall.
2. Press the green colour key to uninstall the selected channel.
   - ▹ The uninstalled channel is indicated in the list by an icon in front of the uninstalled channel.
3. Press the green colour key again to reinstall the uninstalled channel.

**Note**: uninstalled channels are not reinstalled during an installation update.



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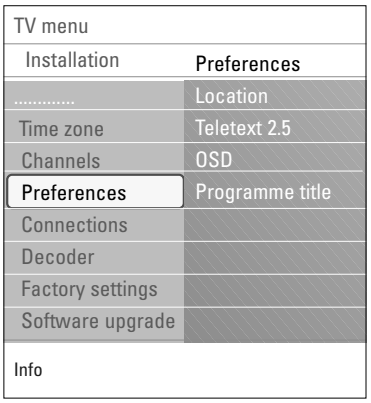
# Set your preferences




This menu contains items that can set or adjust various special TV functions and that will typically be accessed only occasionally.

## Select your location

This allows you to select the location of your TV.
If you choose for **Shop** it will result in fixed settings of picture and sound.
The location **Home** will give full flexibility to change any predefined settings for picture and sound.

## Select Teletext 2.5

Some broadcasters offer the opportunity to see more colours, other background colours and nicer pictures in the teletext pages.

- Select **Teletext 2.5 On** to take advantage of this feature.
- Select **Teletext 2.5 Off** if you like the more neutral teletext layout.
  - ▹ The selection made is valid for all the channels which broadcast Teletext 2.5.

**Note**: it may take a few seconds before teletext broadcast switches over to Teletext 2.5.

## Select the On Screen Display (OSD)

This allows you to select the display of the volume bar and a reduced or extended on screen display of programme and channel information.

- Select **Minimum** to activate the display of reduced channel information.
- Select **Normal** to activate the display of extended channel and programme information. For example, information on the programme, input signal quality of connected peripheral equipment, the screen format and sound mode, selected audio language, subtitle language, ratings, remaining time of the sleeptimer setting,...

## Display a Programme title

This allows you, to display the programme title according to the transmitted information.

- ▹ When selected **Yes**, after the selection of a TV programme or after you press the i+ key on the remote control, a programme title will be displayed if transmitted.



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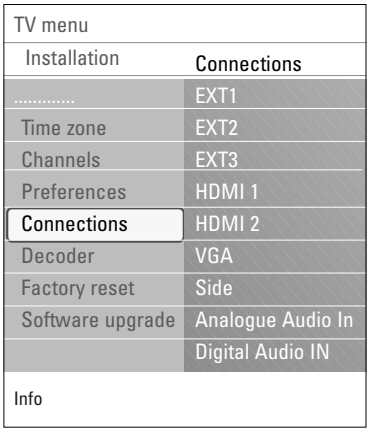
## Select your connections




This allows you to select the peripheral equipment you have connected to the audio and video connectors.

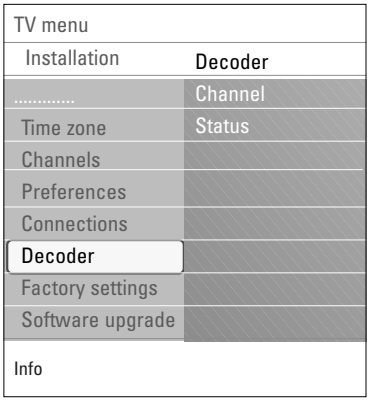
1. Select **Connections**.
2. Press the cursor right.
3. Select the input to which the peripheral equipment is connected.
   - ▹ When you select **EXT1**, **EXT2**, **EXT3**, **HDMI 1**, **HDMI 2**, **VGA**, **Side**, **Analogue Audio In** or **Digital Audio In**, a list appears which allows you to identify which type of peripheral equipment is attached to this input.
4. Press the cursor right again to enter the list of types of peripherals connected to the selected input.
5. Select the peripheral equipment with the cursor up/down.

### Digital Audio In

If a peripheral equipment has a digital audio output, you can connect this with a single cable to the TV's **DIGITAL AUDIO IN** connector.
In the Connections menu, assign the Digital Audio In to the corresponding external input to which your peripheral equipment is connected.

In addition to accepting audio input via Digital Audio In, the TV can output encoded Dolby Digital audio via the **DIGITAL AUDIO OUT** connector to an external amplifier or receiver. If your amplifier or receiver has a matching connector for Digital Audio In, you can connect it with a single cable to the TV's **DIGITAL AUDIO OUT**.
See To make video and audio connections, Connect a Home Cinema amplifier, p. 52.

## Select a Decoder channel number




This allows you to define one or more channel numbers as decoder channel numbers when a decoder or a descrambler is connected to **EXT1** or **EXT2**.

1. Select the channel number under which you have stored the programme that comes from your decoder or descrambler.
2. Select **Status**.
3. Select the input used to connect your decoder: **None**, **EXT1** or **EXT2**.
   - ◦ Select **None** if you do not want the selected channel number being activated as a decoder channel number.



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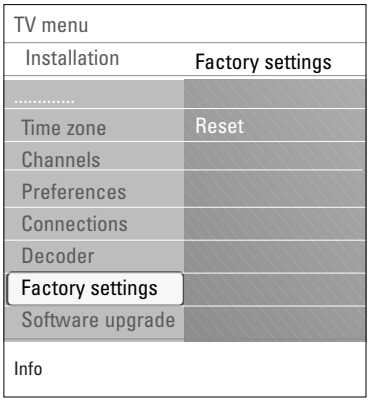
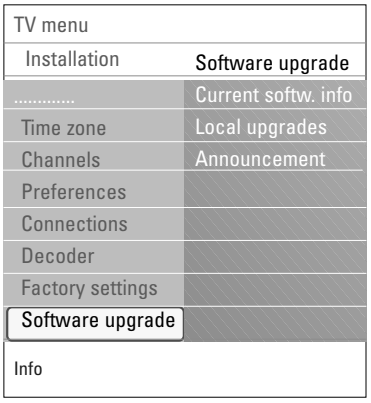
## Reset the Factory settings




This allows you to reset most of the predefined factory states.

1. Select and press the cursor right.
2. Press the **OK** key to erase settings and reset them to their default values.

## How to upgrade the TV software




This allows you to upgrade your TV software using a USB device.

### USB device upgrade

It is possible to initiate an upgrade procedure from a USB device before you start up the TV. The memory device must be filled with the appropriate upgrade image (and structure) which can be found on the www. philips.com/software website.
How to upload a new software version on your memory device, see Annex 2, Philips TV software upgrade with portable memory, p. 58.

### Automatic software announcement (if present)

When you switch on your TV a message may appear that a new software upgrade is available.

- Press the red colour key on your remote control if you want to be reminded later on.
- Press the green colour key on your remote control to confirm you have read the message.
  - ▹ Once you have confirmed, the message will not pop up again.
    If however, you want to see the last broadcasted announcement again, select **Announcement** in the Software upgrade menu.

**Note**: as long as the software upgrade has not been executed, the message will be available.



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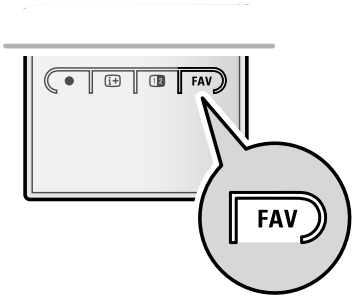
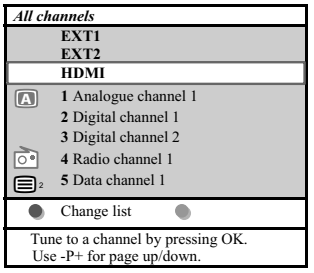
# Create your favourite list



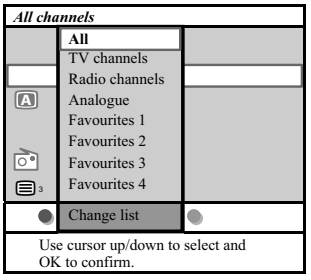

This allows you to select up to four favourite channels lists with your preferred TV channels and radio stations. For example, each member of your family can create his/her own favourite list.
In addition to the favourite channel lists you may also select a list with only digital TV channels or a list with only the radio channels or a list with only the analogue channels.

**Note**: when this key is pressed the first time after you have finished the installation, it will bring up the full channel list. In other situations it will bring up the last selected channel list.



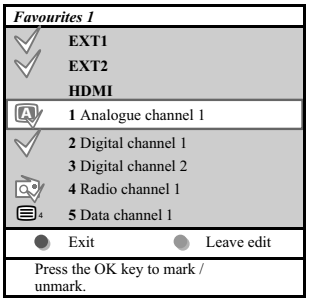

## To select a channel from the displayed favourite list

1. Press the **FAV** key (or the **OK** key).
   ▹ The last selected channel list appears.
2. Use the cursor up/down to select a channel.
3. Press the **OK** key to display the selected channel.




## To select another favourite channel list

1. Press the **FAV** key.
   ▹ The last selected channel list appears.
2. Press the red colour key to bring up the list of possible favourite channel lists.
3. Use the cursor up/down to select a list.
4. Press the **OK** key.
5. Press the **FAV** key again to exit.




## To create a favourite list or to modify the list

1. Press the **FAV** key.
   ▹ The last selected channel list appears.
2. Press the red colour key.
   ▹ A list with all possible favourite channel lists appears.
3. Use the cursor up/down to select a Favourites (1 to 4) channel list.
4. Press the **OK** key.
5. Press the green colour key to enter the Edit mode.
   ▹ The selected Favourite list will bring up a full channel list.
6. Use the cursor up/down to select a channel.
7. Press the **OK** key to check or uncheck the highlighted channel and to add it to or remove it from your selected favourite list.

8a. ◦ Press the green colour key again to leave the Edit mode.
   ▹ The modified favourite channel list appears.
   ◦ Press the **FAV** key again to exit.
   ▹ With the **–P+** key you will be able to browse through the TV channels of the selected list.

8b. Press the red colour key to remove the channel list.

**Note**: with the digit keys you can still select channels which are not marked as favourite.



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# Create your favourite channels list (Continued)

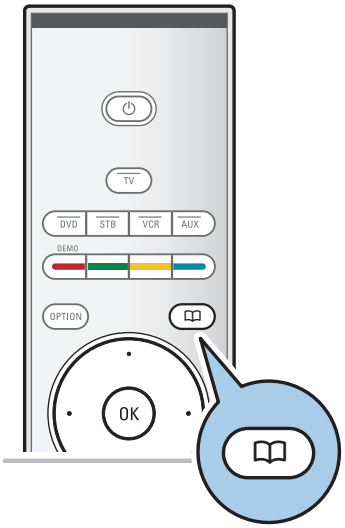
### To select only TV or only radio channels on the All channels list

When the All channels list is displayed or selected you may filter the list and select a list with only the TV channels or a list with only the radio channels.

1. Press the **FAV** key.
   - ▹ The last selected channel list appears.
2. Press the cursor left.
3. Select the All channels list and press the cursor right.
4. Press the red colour key to filter.
5. Select your desired channels list.
6. Press the **FAV** key again to exit.
   - ▹ With the **–P+** key you will be able to browse through the TV channels of the filtered list.

**Note**: the filtering will not be remembered after the TV is switched off or set to standby.

## EPG (Electronic Programme Guide) (only with Digital TV channels)




The Electronic Programme Guide shows you detailed information about the current programme and also about the next programme (only for TV programmes that provide EPG information).

**Note**: these instructions may differ according to the type of Electronic Programme Guide.

1. Press the 🕮 key.
   - ▹ The EPG screen appears. Dependent on conditions it may take some time to acquire EPG data.
   - ▹ The EPG screen updates automatically if the EPG data is acquired successfully. If not, the EPG screen remains blank.
   - ▹ Information about the selected programme appears.
   - ◦ Use the coloured keys to activate the available EPG features displayed at the bottom of the screen.
2. To quit the Programme Guide page, press the 🕮 key again.

### When the type of Electronic Programme Guide available, displays a list of TV programme (UK only):

1. Use the cursor up/down to select a desired TV programme.
   - ▹ Information about the selected programme appears.

**Tips**:
- to view more information (not currently displayed) about the selected programme, press the blue colour key on the remote control. If the screen contains further information, **More** is displayed.
- to quit the display of detailed information, press the blue colour key again.



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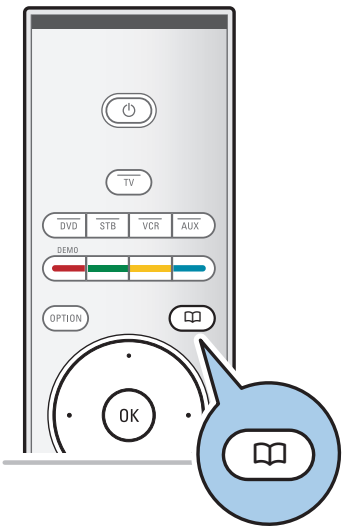



2. Press the green colour key on the remote control to watch/listen to the selected programme currently on air.
3. Press the red colour key to mark/unmark a reminder on the selected programme. You can set up to a maximum of 10 reminders.
   ▹ The TV will wake up automatically or display a message when the programme is about to start. Follow the instructions on screen to watch the programme.
4. Press the yellow colour key to jump to the **Next** or the **Previous day** or back to **Today**.
5. Press the **MENU/BROWSE** key, while Programme Guide is active, to activate the Programme Guide main menu.
   ° Use the cursor up/down to highlight and select a menu item.
   - **What's on** allows you to browse through the programme guide information of your preferred EPG channels.
   - **Search by genre** allows you to search for the programmes according to a selected genre.
   - **Scheduled reminders** allows you to view and change the reminders you have set.

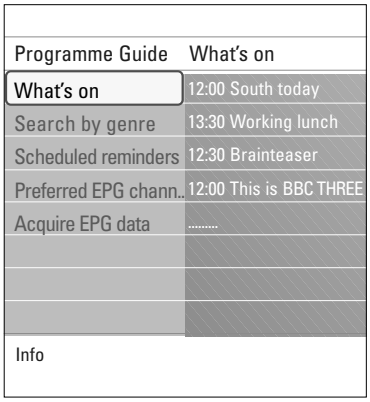
   **Note**: the reminder(s) will wake up your TV from standby only if you switched off your TV with the ⏻ key on your remote control.

   - **Preferred EPG channels** are the channels from which the EPG data is currently being acquired. This menu allows you to mark/unmark (up to 50) preferred EPG channels.

   **Note**: after the installation of your channels, by default 40 channels with available EPG data will automatically be marked as preferred EPG channel.

   - **Acquire EPG data** allows you to update the information for the preferred programme guide channels. Follow the instructions on screen.

   **Note**: Acquisition of EPG data is done automatically while watching TV.




6. To quit the Electronic Programme Guide, press the a key again.

**Tips**:
- the EPG screen will not include TV channels which are not in the Preferred channel list or which are uninstalled (See Rearrange menu).
- new added channels (via reinstallation or installation) will have to be marked in the preferred EPG channel list before you can see EPG data.



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# Multimedia Browser

The Multimedia browser lets you display pictures, movies or play audio files stored on a USB device. The Multimedia browser application is invoked from the main menu.

-Following file formats can be reproduced:
  for pictures: JPEG
  for audio: MP3, MP3 Pro, LPCM
  for video: MPEG1, MPEG2
- Only FAT/DOS-formatted memory devices are supported.
- Philips can not be held responsible if your USB device is not supported.

## To view content from a USB device

**Tip**: if your USB device does not fit into the USB connector at the side, use an USB extend cable to connect the USB device to the USB port. Ask your dealer for more information.

### To insert a USB device

**Note**: USB devices are not supplied with this TV.

In case of a USB-memory stick or a digital camera, connect it to the USB connector at the side. See To make video and audio connections, Side panel overview, p. 45.
When a USB device is inserted, the Multimedia browser menu is displayed automatically. See further.

### To remove the USB device

1. Press the **MENU/BROWSE** key on the remote control to switch off the main menu.
2. Remove the USB device.



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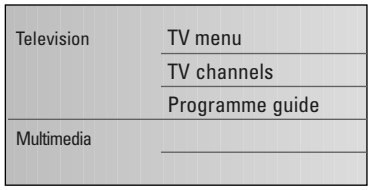


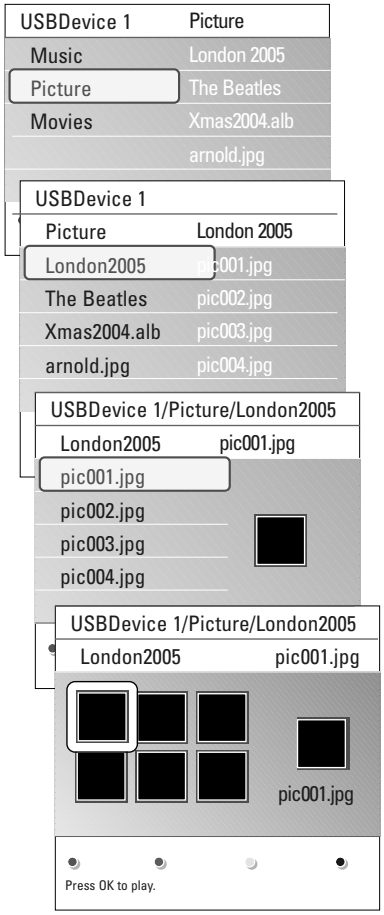


## Multimedia Browser menu

1. Insert a USB device.
2. Select the USB device under Multimedia with the cursor up/down.
   - ▹ The Multimedia browser allows you to browse content stored on the inserted USB device.
   - ▹ The 2-panel browser will be shown with the left panel containing the content types (Music, Pictures, Movies).
   - ▹ The right panel will display the content that is available of the selected content type.
3. Press the cursor right to enter the content.
4. Press the cursor up/down to select a content.
5. Press the cursor right to enter the content.
6. Press the cursor up/down to select a file or a directory.

**Note**: press the green colour key to display all the image files in the current directory as thumbnails when browsing pictures. Press the green key again to display the image files in a list.

7. In case a **file** is selected, press the **OK** key to display a picture file or to play a video or an audio file.
   In case a **directory**, **album** or **playlist** is selected, press the cursor right to enter the content or press the **OK** key to start a slide show or a loop playback of the files present.
8. Press the cursor left to keep music playing and switch back to the Multimedia menu.
9. Press one of the colour keys on the remote control to perform the corresponding function mentioned at the bottom of the screen.

**Tip**: the blue colour key can, if necessary, be used to let the colour keys reappear.

10. To stop playing content, press the ■ key on the remote control.

**Notes**:
- your TV supports slide shows with background music. See Annex 3, Philips TV-slideshow format with background music, p. 61;
- the playback will continue to play even if temporarily switched to browser screens. The audio will be stopped when another song starts playing, or when the end has been reached;
- more technical remarks can be found in Annex 4, Philips TV-Digital camera and USB issues, p. 63.

**Following icons may appear:**

folder
self made playlist/album
pictures
video
music



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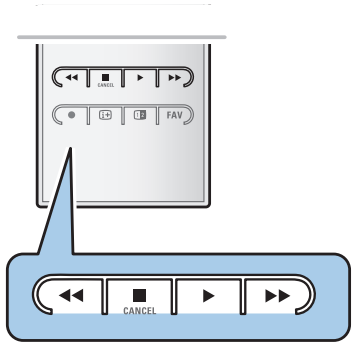
### Function keys at the bottom of the screen

| | |
|---|---|
| Details | to display a description of the selected file or directory |
| Transitions | to select if you like to apply a transition during a slide show |
| Slide time | to select the duration a picture will be displayed in a slide show |
| Rotate | to rotate a picture |
| Repeat one/all | to repeat the playback of a music file |
| Shuffle | to shuffle music collections in a random way |
| Zoom | to select one of the zoom magnifications (x1, x2, x4) with the cursor up/down. Additionally you can shift the selected zoom window over the screen with the cursor keys. |
| Full/small screen | to toggle between a full or a small screen |

**Note**: to rotate a picture or to select one of the zoom magnifications, first stop the slide show with the **OK** key or the blue colour key.




### Multimedia function keys on the remote control

◀◀ to fast rewind displaying content
■ to stop playing content
▶ - to play a single file, start a slide show, playback of a folder or other collection
- to pause playing content
▶▶ to fast forward displaying content



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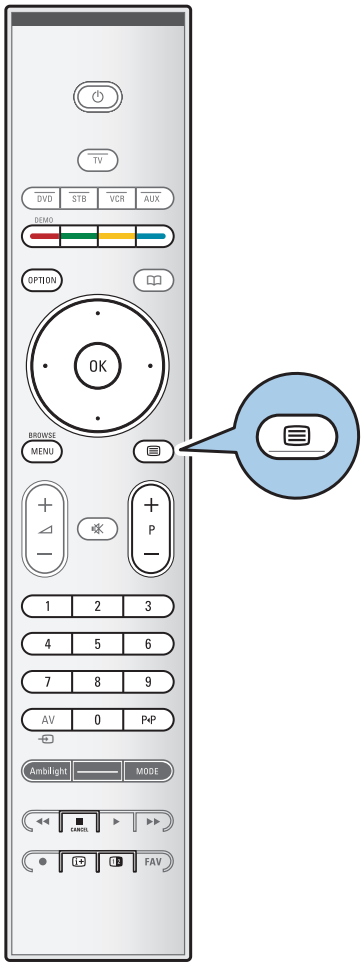


**Note**: Teletext is not available via equipment connected to the **HDMI** connector.

Most TV channels broadcast information via teletext.
This TV has a 1200 pages memory that will store most broadcasted pages and subpages to reduce waiting time. After each programme change, the memory is refreshed.

- Press ☰ to switch the teletext on.
  - ▹ The main index page appears on the screen.

### Select a Teletext page

- Enter the desired page number with the digit keys or with the **-P+** key.
- Select the options at the bottom of the screen with the colour keys.

### Previous selected teletext page

- Press the P↩P key.

### Select T.O.P. teletext broadcasts

- Press i+.
  - ▹ A T.O.P. overview of the teletext subjects available is displayed.
- Select with the cursor up/down, left/right the desired subject and press the **OK** key.

**Note**: not all TV channels broadcast T.O.P. teletext.

### Select subpages

When a selected teletext page consists of different subpages, a list of available subpages appears on the screen. Press the cursor left or right to select the next or previous subpage.

### Picture/Teletext

1. Press the ☰ key.
2. Press the 1 2 key to show Teletext on the right of the screen.
3. Press the 1 2 key to return to a full teletext picture.
4. Press the ☰ key to return to a full screen picture.



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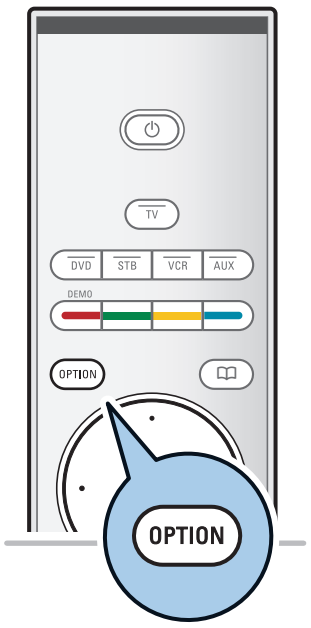
# Teletext (Continued)




## Hypertext

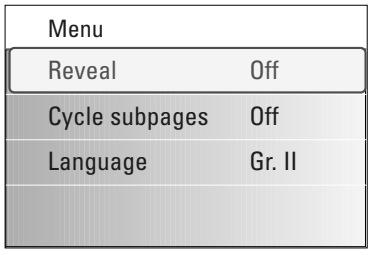
With hypertext you can quickly jump to a pagenumber or search for a specific word shown on the current teletext page.

1. Press the **OK** key to highlight the first word or a number on the page.
2. Use the cursor up/down, left/right to select any other word or number you want to search for.
3. Press the **OK** key to confirm. The search starts.
   - ▹ A message appears at the bottom of the screen to indicate the searching, or that the word or page is not found.
4. Use the cursor up until the top of the page to exit hypertext.

## Enlarge a Teletext page

- Press the **OPTION** key on the remote control repeatedly to display the upper teletext part, the lower teletext part and then to return to the normal teletext page size.

## Teletext menu




The Teletext menu offers various functions to control teletext.

1. Switch teletext on and press the **MENU/BROWSE** key to activate the menu.
2. Press the cursor up/down to select the menu items.
3. Press the **OK** key to activate.
4. Press the **MENU/BROWSE** key to leave the teletext menu.

**Reveal**

Reveals/conceals hidden information on a page, such as solutions to riddles and puzzles.

**Cycle subpages** (if subpages are available)

Makes the subpages cycle automatically.

- Press the **OK** key to activate and to deactivate again.

**Language**

If the displayed characters on screen do not correspond with the characters used by the teletext broadcaster, you can change the language group here.

- Select **Gr. I** or **Gr. II** with the **OK** key.



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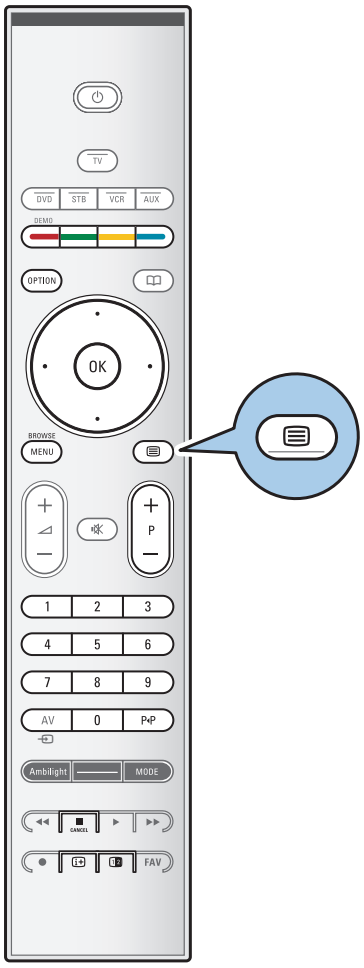


## Digital text (only for UK)

Some digital channels offer dedicated digital text services (for example BBCi).

1. Press ☰ to switch Digital text on.

   **Note: UK only:** Digital text is displayed when programmes are carrying digital text or interactive services.

2. To use the digital text, follow the instructions on screen.
3. Depending on the service, you may be asked to use the cursor keys, the **OK** key, the coloured keys, the teletext key and sometimes the digit keys.
4. When you have finished watching teletext, select a different channel with the **-P+** keys or follow the instructions on screen to return to picture.
5. Press ■ **CANCEL** to cancel digital text or interactive services.

### Text info

Some digital channels also offer information on the programme being broadcast. In that case a message may appear at the bottom of the screen for a few seconds. Follow the instructions on screen and use the cursor keys to scroll through the next pages.

**Note:** digital text will not be available when Subtitles are set to On in the Features menu.



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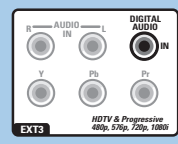
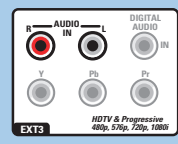
# To make video and audio connections

**Tip**: use the inputs that are available on your equipment that provide the best video or audio performance, as below.

**Note**: your TV comes with all types of connectors with the exception of the DVI connector but some of your equipment may be equipped with this type. In this case you'll need a DVI to HDMI adapter or a HDMI to DVI cable and separate audio cables, all available at your local dealer.
**Warning**: be sure to connect the DVI output connector first, then connect to the HDMI input on your TV.

**Best video performance**

| Connector table | Audio connection required |
|---|---|
| HDMI<br>HDMI (High-Definition Multimedia Interface) | No |
| <br>Component video (480p/576p/720p/ 480i/576i/1080i)<br>Digital audio | Yes  |
| <br>Component video (480p/576p/720p/ 480i/576i/1080i)<br>Analog audio | Yes  |
| <br>Scart | No |
| <br>S-Video | Yes |
| <br>Video | Yes |
| <br>RF/Coaxial | No |

**Notes**:
- cables are often colour-coded to connectors. Connect red to red, white to white....
- component video (YPbPr) connection is necessary to view video sources, for example digital broadcastings coming from a settop box, in 1080i, 720p, 576i, 576p, 480i or 480p,
- PC equipped with a VGA connector, see p. 51.



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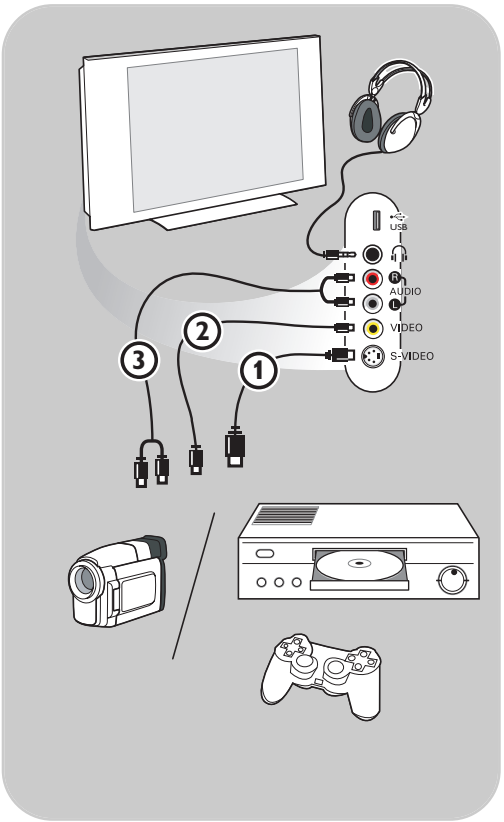


### Camera, Camcorder, Game

1. Connect your camera, camcorder or game as shown.
2. Connect to **VIDEO** ② and **AUDIO L** ③ for mono equipment. For stereo equipment also connect **AUDIO R** ③.
   S-VHS quality with an S-VHS camcorder is obtained by connecting the S-VHS cables with the **S-VIDEO** input ① and **AUDIO** inputs ③.

**Warning**: do not connect cable ① and ② at the same time. This may cause picture distortion !

### Headphone

1. Insert the plug into the headphone socket as shown.
2. The headphone impedance must be between 8 and 4000 Ohm. The headphone socket has a 3.5 mm jack.
   In the Sound menu select **Headphone volume** to adjust the headphone volume.

**Tip**: Press on the remote control to switch off the internal loudspeakers of the TV.

### USB

See Multimedia browser, p. 38.



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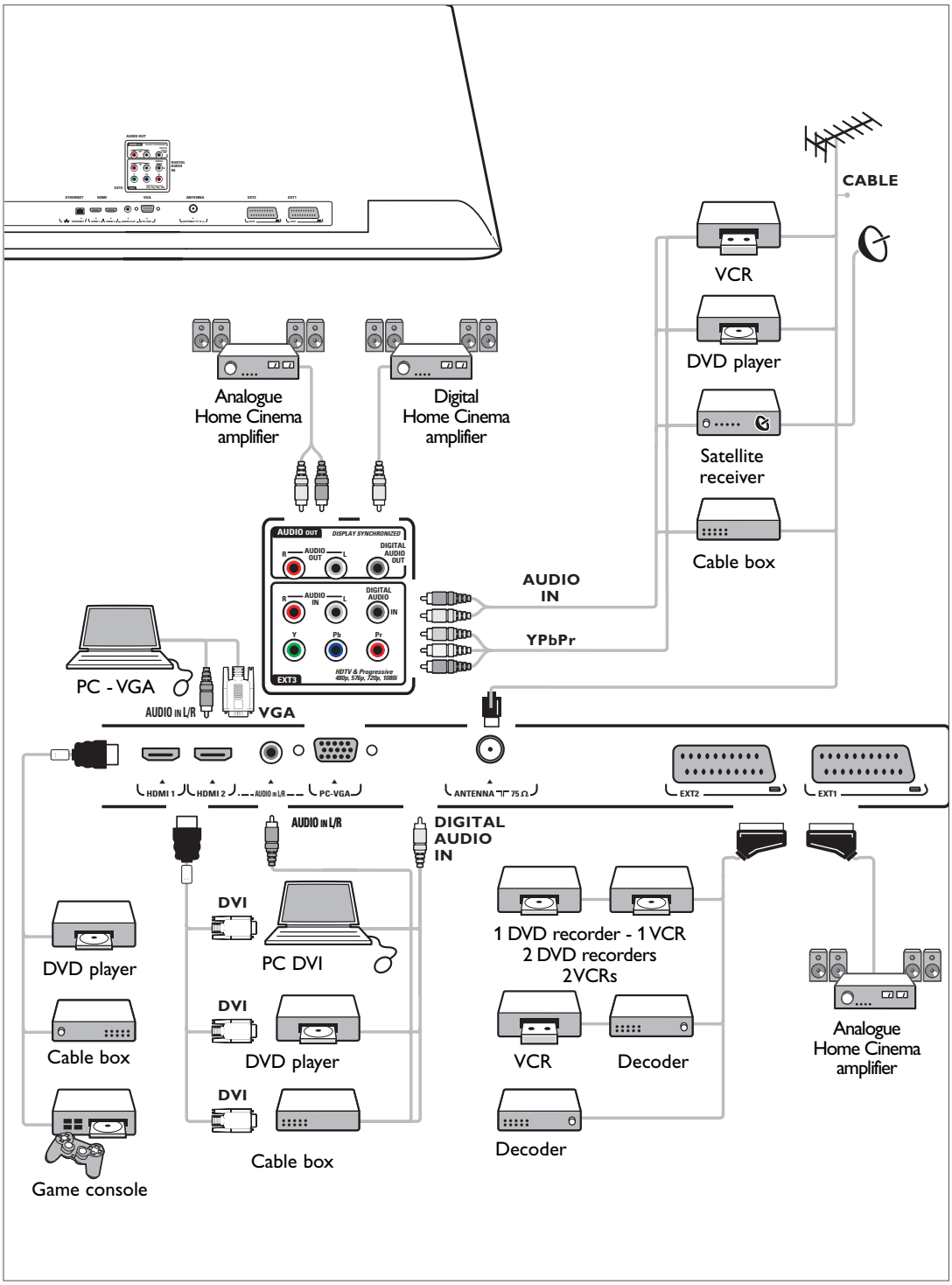
# To make video and audio connections - Rear panel overview



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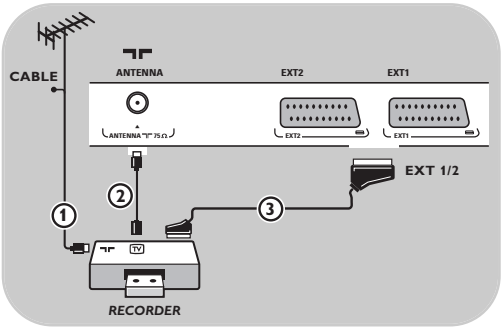
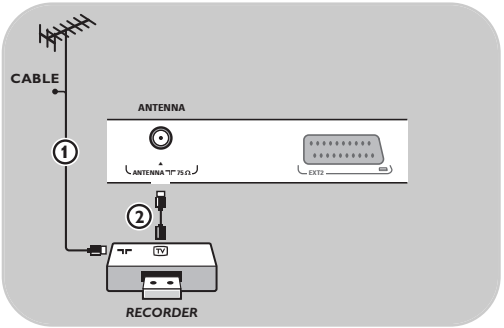
# Connect a VCR or DVD recorder

**Warning**: do not place your recorder too close to the screen as some recorders may be susceptible for signals from the display. Keep a minimum distance of 0,5 m from the screen.



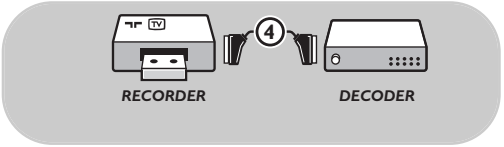

## With a eurocable

1. Connect the aerial cables ① and ② as shown.
2. Connect the eurocable ③ as shown.
3. Make your selection of the source to which the VCR has been connected in the Installation menu, Select your connections, p. 33.




## With the aerial cable only

1. Connect the aerial cables ① and ② as shown.
2. Tune in your recorder's testsignal and store the testsignal under programme number 0.
   See Analogue: manual installation, p. 30.
   See also the handbook of your recorder.




## Connect a decoder and a VCR

Connect a eurocable ④ to your decoder and to the special euroconnector of your recorder.
See also the handbook of your recorder.

**Tip**: you can also connect your decoder directly to **EXT1** or **EXT2** with a eurocable.



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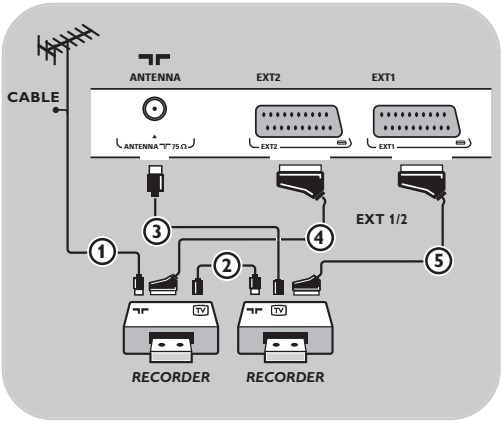
## Connect two VCRs or VCR and DVD recorder

**Note**: you can not record signals from equipment connected to the **YPbPr** input.



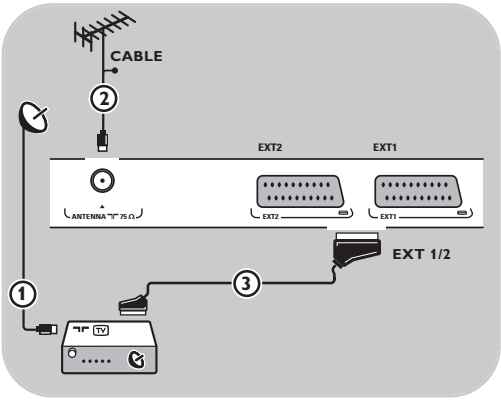

### With eurocables

1. Connect the aerial cables ① and ② as shown.
2. Connect your VCRs or DVD-recorder to **EXT1** and **2** with the eurocables ④ and ⑤.
3. Select the equipment you have connected in the Installation menu, Select your connections, p. 33, and link it to **EXT1** or **2**.

### With aerial cables only

1. Connect the aerial cables ①, ② and ③ as shown.
2. Tune in your recorder's testsignal and store the testsignal under programme number 0.
   See Analogue: manual installation, p. 30.
   See also the handbook of your recorder.

## Connect a satellite receiver




### With a eurocable

1. Connect the aerial cables ① and ② as shown.
2. Connect your satellite receiver to **EXT1** or **2** with a eurocable ③.
3. Select the equipment you have connected in the Installation menu, Select your connections, p. 33, and link it to **EXT1** or **2**.

### With Component Video connectors

See Connect a DVD player, a satellite receiver or a cable box, p. 50.



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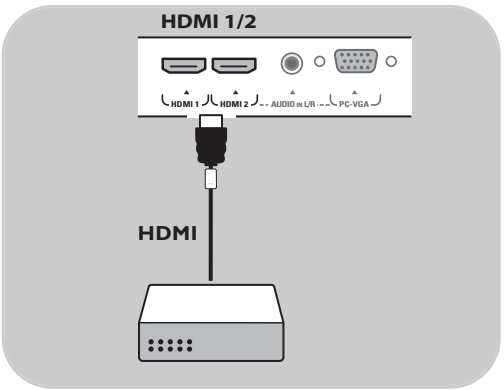
## Connect a DVD player, Cable box or game console

**Tip**: if necessary, you can adjust the picture position to the centre of the screen with the cursor keys.




### With a HDMI connector

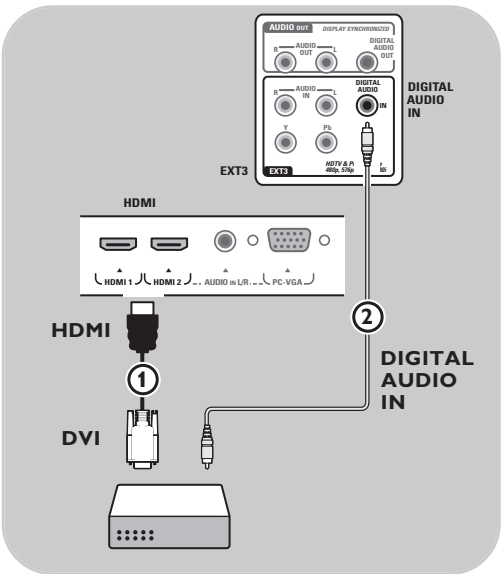
HDMI is the leading new standard for Digital video and audio interconnection.

1. Connect your equipment with the **HDMI** connector.
2. Select the equipment you have connected in the Installation menu, Select your connections, p. 33, and link it to **HDMI 1** or **2**.

**Note**: in case of any problems, see Annex 5: Issues referring to connected peripherals with a HDMI connector, p. 64.

## Connect a DVD player or Cable box

**Tip**: if necessary, you can adjust the picture position to the centre of the screen with the cursor keys.




### With a DVI connector

**Note**: only a DVD player with DVI with digital sound can be connected to the **HDMI** connector.

1. Connect the DVI to HDMI cable to one of the HDMI connectors of your TV ①.
2. Connect the audio cable ② to the **DIGITAL AUDIO IN** connector of the TV.
3. Select the equipment you have connected in the Installation menu, Select your connections, p. 33 and link it **HDMI 1** or **2**.
4. Also select **Digital audio in** in the same Connections menu.



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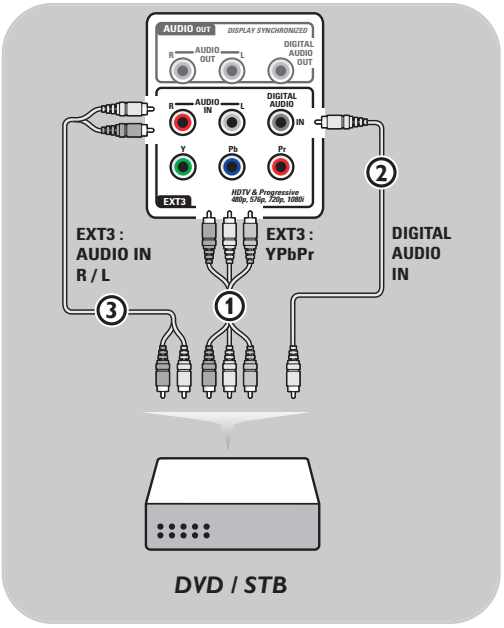
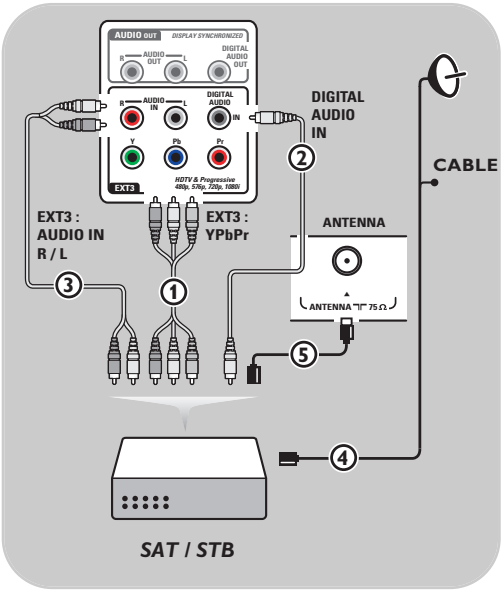
# Connect a DVD player, a satellite receiver or Cable box

**Tip**: if necessary, you can adjust the picture position to the centre of the screen with the cursor keys.




## With Component Video Connectors

1. Connect the three separate component video cables ① to the YPbPr jacks on the DVD player and to the **Y**, **Pb** and **Pr** jacks of **EXT3** on the TV.
2. Connect the audio cable ② to the digital out of the equipment and to the **DIGITAL AUDIO IN** connector of the TV.
3. Select the equipment you have connected in the Installation menu, Select your connections, p. 33. Also select **Digital audio in** in the same Connections menu and link it to **EXT3**.
4. In case of a DVD player with analogue audio, connect the audio cable to the DVD's audio **L** and **R** jacks and to the **L/R AUDIO** jack of **EXT3** ③.
5. In case of a cable box and/or a satellite receiver also connect the cable TV cable and/or the satellite antenna cable ④ and the aerial cable ⑤.




**Notes**:
- cables are often colour coded. Connect red to red, white to white, etc..;
- the labels for the component video sockets may differ depending on the DVD player connected. Although the abbreviations may vary, the letters B and R stand for the blue and red component signals, respectively, and Y indicates the luminance signal. Refer to the DVD player's instructions for use for definitions and connection details;
- to get an optimal viewing, it is advised to switch your equipment to the highest possible supported display modes.

**Warning**: in case you notice scrolling images, wrong colours or no colour, no picture, or even combinations of these on your screen, verify if the connections are done in the correct way and if the resolution and the signal standard of the connected equipment are set in the right way. See the handbook for your equipment.



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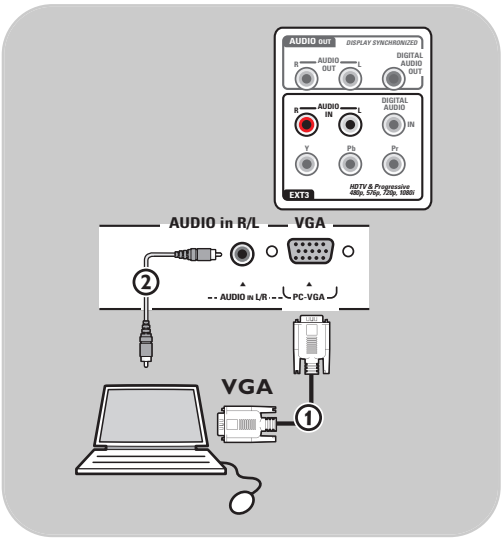
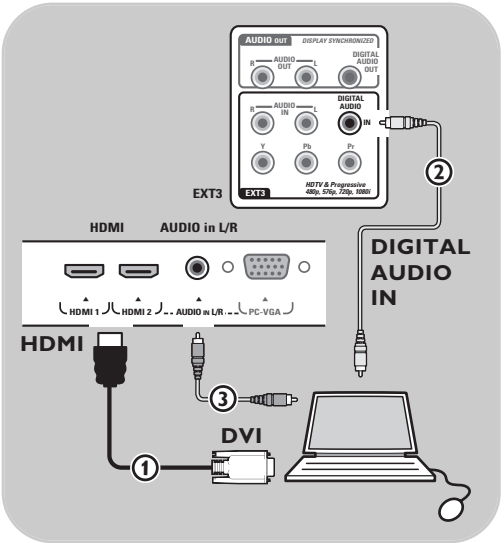
**Notes:**
- only a PC with digital sound can be connected to the **HDMI** connection;
- if your PC does not have digital sound output, connect your PC via a VGA connector;
- before connecting your PC to the TV, select your PC monitor settings to a refresh frequency of 60 Hz;
- supported PC monitor modes:

| | |
|---|---|
| VGA | 640 x 480 |
| SVGA | 800 x 600 |
| XGA | 1024 x 768 |




**PC equipped with a VGA connector:**

1. Connect one end of a VGA cable ① to the video card of the computer and the other end to the **VGA** connector at the bottom of the TV. Fix the connector firmly with the screws on the plug.
2. In case of a Multimedia computer, connect the audio cable ② to the **AUDIO** outputs of your computer and to the **L/R AUDIO** input of the TV.
3. Select **VGA** in the Installation menu, Select your connections, p. 33 and link it to **VGA**.
4. Also select **Analogue audio In** in the same Connections menu.




**PC equipped with a DVI connector:**

**With Digital audio**

1. Use a DVI to HDMI cable to connect to one of the **HDMI** connector of your TV ①.
2. Connect the audio cable ② to the **DIGITAL AUDIO IN** connector of the TV.
3. Select the computer you have connected in the Installation menu, Select your connections, p. 33 and link it to **HDMI 1** or **2**.
4. Also select **Digital audio In** in the same Connections menu.

**With Analogue audio**

1. Use a DVI to HDMI cable to connect to the **HDMI 2** connector of your TV ①.
2. Connect the audio cable ③ to the **L/R AUDIO** input of the TV.
3. Select the computer you have connected in the Installation menu, Select your connections, p. 33 and link it to **HDMI 2**.
4. Also select **Analogue audio In** in the same Connections menu.



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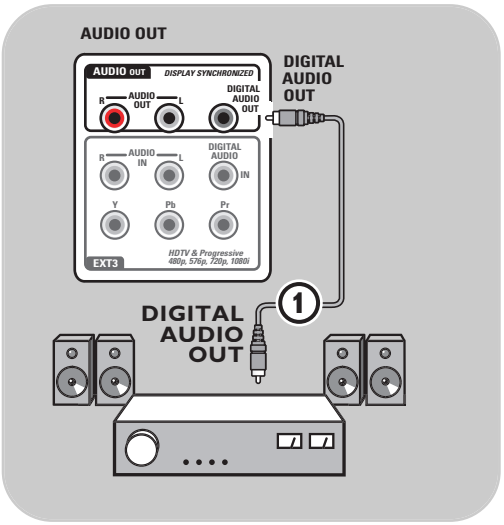
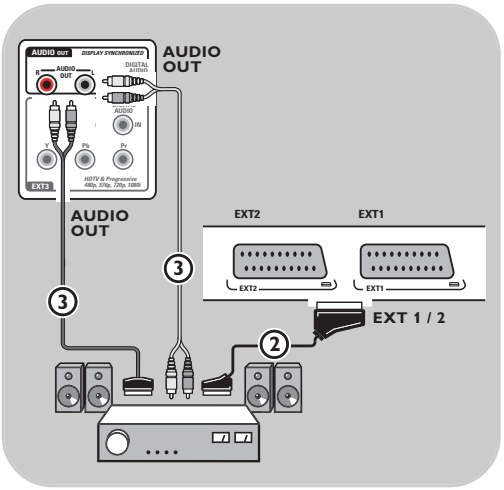
# Connect a Home Cinema amplifier




## Digital Home Cinema amplifier

- Connect a digital Home Cinema amplifier to the **DIGITAL AUDIO OUT** connector ① at the bottom of the TV.

**Tip**: to avoid visible delay between picture and sound, use this **DIGITAL AUDIO OUT** connector to connect your Home Cinema amplifier.




## Analogue Home Cinema amplifier

- According to the type of connector cables and the connector input available on your Home Cinema amplifier, connect your receiver to the **AUDIO OUT L** and **R** connectors ③ or to **EXT1** or **2** ② at the bottom or the rear of the TV.



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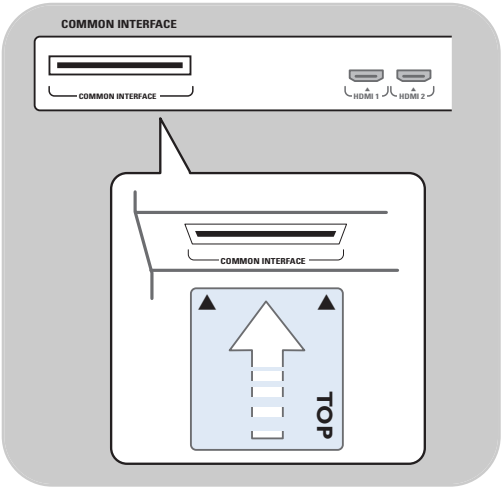
# Use the Common Interface slot

**Warning**: switch off your TV before any module is inserted in the Common Interface slot.

**Note**: this functionality is only available in certain countries.




To receive scrambled DTV signals you will need a CA (Conditional Access) module and a Smart card provided by the service provider.
A CA module can enable additional services, for example Pay TV.
Contact your Common Interface service provider to get more information about these modules.
Although CA module types may vary dependent on the manufacturer, each one of the CA modules supports a certain kind of encryption system. Your TV supports CA modules to work with the DVB-T standard.
Note that a smart card may only be valid for a single broadcast channel.
CA modules and smart cards are neither supplied nor optional accessories from Philips.
The CA module is responsible for the messages and texts on screen. In case of failure or strange behaviour, you must call your CI service broadcaster.

### Insert a CA module

- Insert the specified Conditional Access module into the Common Interface slot as far as it will go. It may take a few minutes before the CA module is activated and service information is downloaded.

**Warning**: when you connect the CA module incorrectly, it may damage the card and the TV. After inserting a card, leave it in the slot permanently. Do not remove it from the slot unless asked to do so. For example, your card has to be in the slot when your CI service broadcaster wants to download new information to the smart card. Once the CA module is removed, your TV will no longer decrypt scrambled digital DVB-T channels.

To access common interface applications, see TV menu, Adjust feature menu settings, Common Interface, p. 26.



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## Select connected equipment

Before operating your connected equipment you have to make a selection in the Installation, Select your connections menu, p. 33.

1. Press the **MENU/BROWSE** key.
2. Select **TV menu** and press the cursor right.
3. Select **Installation**.
4. Press the cursor right.
5. Select **Connections**.
6. Press the cursor right.
7. Select the input to which the peripheral equipment is connected.
8. Press the cursor right again to enter the list of types of peripherals connected to the selected input
9. Select the peripheral equipment with the cursor up/down.

## Record with your recorder

**Note**: to record digital programmes to an analogue recorder, the TV needs to be switched on and tuned to that digital programmes.

### Record a TV programme

You can record a TV programme using your recorders tuner without affecting your TV.

1. Select the channel number on your recorder.
2. Set your recorder to record.
   See the handbook for your recorder.

**Note**: when recording analogue progammes, switching channel numbers on your TV does not disturb recording !



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Most of the audio and video equipment from our range of products can be operated with the remote control of your TV. Press one of the keys after you pressed one of the mode keys (**DVD**, **STB**, **VCR**, **AUX**) according to the equipment you want to operate with this remote control.
See Use of the Remote control, p. 5-6.

| | |
|---|---|
| ⏻ | to switch to standby |
| ● | for record, |
| ◀◀ | for rewind (**VCR**, **CD**); search down (**DVD**) |
| ■ | for stop, |
| ▶ | for play, for pause |
| ▶▶ | for fast forward (**VCR**, **CD**); search up (**DVD**) |
| i+ | to display information |
| **MENU/BROWSE** | to switch the menu on or off |
| **- P +** | for chapter, channel, track selection |
| **0 to 9** | digit entry, |
| cursor up/down | to select the next or the previous disc (**CD**) |
| cursor left/right | to select the previous or following track (**CD**) |
| P↤P | to select a DVD title/chapter; index (**AUX**) |
| ☰ | to select your choice of subtitle language (**DVD**) |

**Normal mode**: if no action is being undertaken within 30 seconds, the remote control returns to TV mode.
**Expert mode**: in Expert mode the remote will stay in the selected mode even when the 30 seconds time-out is elapsed.

### To select between Normal and Expert mode

1. Select TV mode with the **TV** key.
2. Press the **OK** key simultaneously with the 🔇 key for four seconds.
   - ▹ When the ⏻ key is On for one second, the Expert mode is selected and the remote control will remain in the mode selected.
3. Select the desired mode (**DVD**, **STB**, **VCR**, **AUX**)
4. To go back to the TV mode, select **TV** and repeat steps 1. to 3.



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| Symptom | Possible cause/Remedy |
|---|---|
| **No picture** | ◦ Verify if the supplied cables are connected properly. (The aerial cable to the TV, the other aerial to your recorder, the power cables, ..)<br>◦ Verify if you selected the correct source.<br>◦ Verify if the child lock has been switched off. |
| **Poor picture** | ◦ Verify in the Manual installation menu if you have selected the correct TV system.<br>◦ Verify if your TV or house aerial isn't located too close to loudspeakers, non-earthed audio equipment or neon lights, etc.<br>◦ Mountains or high buildings can cause double pictures or ghost images. Sometimes you can improve the picture quality by changing the direction of the aerial.<br>◦ Is the picture or teletext unrecognisable or do you experience bad teletext reception ? Verify if you have entered the correct frequency, or fine tune the frequency for that specific channel or adjust the antenna direction if the problem isn't solved by finetuning. See Installation, Analogue: manual installation, p. 30. |
| **Poor colour** | ◦ Select Factory settings in the Installation menu.<br>◦ Verify the connections between the optional equipment and the TV. |
| **No sound** | ◦ Verify if the volume isn't at minimum.<br>◦ Verify if the sound hasn't been muted with the key.<br>Verify the connections between the optional equipment and the TV. |
| **No digital channels** | ◦ Contact your dealer about Digital Video Broadcasting Terrestrial signal availability in your country. |
| **No subtitles (UK ONLY)** | ◦ Under certain circumstances Digital text or interactive services may have priority over subtitles. This can result in the subtitles not automatically reappearing when leaving Digital text or interactive services on a channel which is broadcasting subtitles. In these cases subtitles can be initialised, either by toggling the **OPTION** or the **MENU** key on the remote control or by changing channel. |
| **The remote does not function** | ◦ Verify if the remote is set correctly for the equipment your are using.<br>◦ Verify if the batteries are not dead. Replace the batteries.<br>You can still use the keys at the left side of the TV.<br>◦ Select **TV** mode on your remote control.<br>◦ When pressing a key and some key leds are blinking with a higher speed and lower intensity than in a normal working condition, and your TV does not react on the key press, remove the batteries out of the remote control and put them back again. |
| **The remote of connected equipment does not function well** | ◦ The infrared signals of the screen may influence the reception sensibility of other peripherals.<br>Solution: replace the batteries of the remote of other peripheral equipment. |
| **No photo or music play or in poor quality** | ◦ Verify if the source complies with a supported code. |
| **No stable or not synchronised VGA picture** | ◦ Verify if you have selected the correct VGA mode in your PC.<br>See Connect a PC, p. 51.<br>◦ Verify the connections between the TV and the PC. |
| **No solution found for your picture or sound problem** | ◦ Switch off your TV off and then on again once.<br>Never attempt to repair a defective TV yourself.<br>Verify with your dealer or call a TV technician. |
| **Red blinking led** | ◦ Unplug the mains cord for 10 seconds and insert it in again. |



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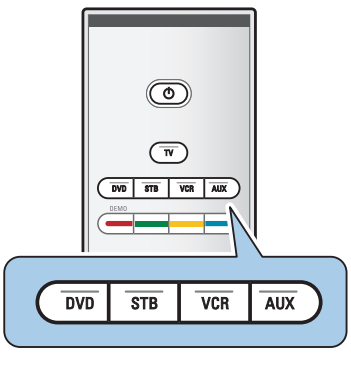
# Annex 1: To set the remote control to work a Philips DVD or DVD/R




Your TV remote control gives you the opportunity to control your Philips DVD or DVD/R.

1. Press the **DVD** mode key for 4 seconds until the LED lights up constantly
2. Enter the code 500 with the digit keys for a Philips DVD player.
   Enter the code 542 with the digit keys for a Philips DVD recorder.
   - ▹ All mode LEDs will blink fast for 3 seconds as a confirmation you entered the correct code.
     If you entered a wrong code all mode LEDs will stay on for 2 seconds. Redo Step 2.
   - ▹ Your remote control is in the DVD or DVD/R mode.

### To cancel the selected mode

- ◦ Press the **DVD** mode key for 4 seconds.
  - ▹ The remote control will return to **TV** mode.



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# Annex 2 - Philips TV software upgrade with portable memory

## Introduction

Philips offers software upgrade capability for your TV using portable memory. After you have completed a software upgrade, your TV will typically perform better.
What improvements are made depends on the upgrade software you are using as well as the software your TV contained before the upgrade.
You can execute the software upgrade procedure yourself. Be aware that the content of this document is addressing technical or software skilled users.

## To prepare a portable memory for software upgrade

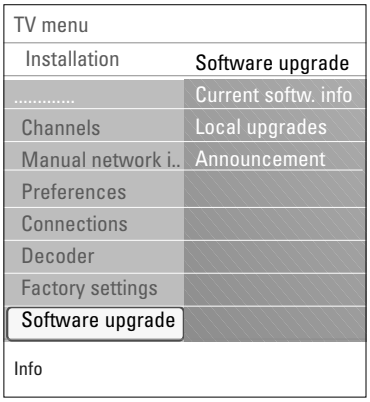
For the procedure you will require:
- a personal computer with web browsing capability;
- an archive utility that supports the ZIP-format (e.g. WinZip for Windows or Stuffit for Mac OS);
- a preferably empty USB memory stick.

**Note**: only FAT/DOS-formatted portable memory is supported.

New software can be obtained from your dealer or can be downloaded from the www.philips.com/support website:

1. Go to **www.philips.com/support** using the web browser on your PC.
2. Follow the procedure to find the information and the software related to your TV.
3. Select the latest software upgrade file and download it to your PC.
4. Decompress the ZIP-file and copy the file “autorun.upg” to the root directory of the USB portable memory.

**Note**: only use software upgrades that can be found on the www.philips.com/support web site.




## To verify the version of the TV software

Before you start the software upgrade procedure, it is advised to check what the current TV software is.

1. Select **Software Upgrade** in the TV menu, Installation, Software upgrade.
2. Press the cursor right.
   ▹ The Software Upgrade menu moves to the left panel.
3. Select **Current Software Info** to observe the version and the description of the current software.



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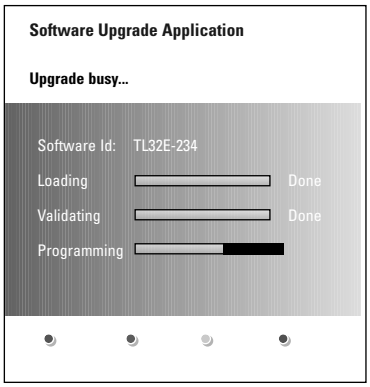


### Automatic software upgrade procedure

1. Switch off your TV and remove all memory devices.
2. Insert the USB portable memory that contains the downloaded software upgrade.
3. Switch on your TV with the power key ⏻ at the side of the TV.
4. At startup the TV will scan the USB portable memory until it finds the update content. The TV will automatically go to the upgrade mode. After a few seconds it will display the status of the upgrade procedure.

**Warning**:
- you are not allowed to remove the USB portable memory during the software upgrade procedure;
- in case of a power drop during the upgrade procedure, don't remove the USB portable memory from the TV. The TV will continue the upgrade as soon as the power comes back;
- if you try to upgrade to a software version lower than the current version, a confirmation will be asked. Downgrading to older software should only be done in case of real necessity;
- if an error occurs during the upgrade you should retry the procedure or contact your dealer;
- the automatic software upgrade procedure will only start if the version on the USB portable memory is different from the one in the TV.

5. When the software upgrade was successful, remove the USB portable memory and restart your TV with the power switch ⏻ at the side of the TV.
Your TV will start up with the new software.

**Note**: once the upgrade is finished use your PC to remove the TV software from your USB portable memory.



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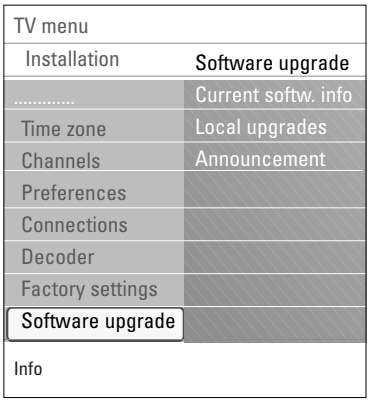


### Manual software upgrade procedure

For a manual software upgrade copy the "autorun.upg" file in a directory called "Upgrades" located in the root of the USB portable memory. You can rename the file if you like but keep the .upg extension.

1. Insert the portable memory that contains the downloaded software upgrade.
2. Select **Software Upgrade** in the Installation menu. Go to Local upgrades.
   The TV will list all compatible software available on the USB portable memory and display the data for each selected upgrade version.
3. Select the correct upgrade version and press the red colour key to start the upgrade.
   Your TV will restart and will automatically go to the upgrade mode. After a few seconds it will display the status of the upgrade procedure.

**Warning**: if you try to upgrade to a software version equal or lower than the current version, a confirmation will be asked. Downgrading to older software should only be done in case of real necessity.

4. When the software upgrade was successful, remove the USB portable memory and restart your TV with the power switch ⏻ at the side of the TV. Your TV will start up with the new software.



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# Annex 3 - Philips TV-Slideshow Format with background music

**Notes**:
- the latest version of this document can be found on the Philips support website (www.philips.com/support).
  Use the type number of your TV to find this documentation and other related files.
- Philips can't be held responsible for any problems that may occur as a result of the content in this document. Errors reported to Philips will be adapted and published on the Philips support website as soon as possible.

## Introduction

This document explains how to make a Philips slideshow file with background audio.
Be aware that the content of this document is addressing technical or software skilled users.
To start the slideshow open the slideshow file in the Multimedia browser of your TV.

1. Press the **MENU/BROWSE** key on the remote control after having inserted a USB device and switched on the TV.
2. Go to where you stored the slideshow file (.alb) on your portable memory.
3. Select the slideshow file and press the **OK** key to start the slide show.
4. To stop a slide show, press the ■ key.

## General Rules

- The slideshow will use plain ASCII XML syntax to allow the creation and editing of the slideshow files using simple tools.
- All references to network content must be based on the global address of the content.
- Content on a Portable Memory (PM) doesn't have a global address; as a result content from a PM can never be referenced from a slideshow not stored on the PM itself.
- To maintain portability, a slideshow stored on a PM should ONLY reference content on the same PM. Referencing global addresses can result in inconsistencies if the PM is used on a non-networked CE device. The latter is however not forbidden, it is only a recommendation.
- It is preferable that URL's referencing PM content are based on a relative path starting from the directory where the slideshow is stored. This path includes the device or drive name of the PM. An absolute path to content will also be supported.
  - relative path: pictures\test1.jpg, tamper.jpg, ..\new\bird.jpg, …
  - absolute path: USB1:\pictures1\foo_bar.jpg, C:\f1.jpg, \organization.jpg, …

## General Format

The format and syntax below will be used to create the slideshow file (simple ascii text) with the extension .alb (.ALB). Examples: slshow1.alb, summer_holiday_2004.ALB, test.alb, …
The following syntax should be used to create the text file:

```
<?xml version="1.0" encoding="ISO-885h9-1" ?>
<philips-slideshow version="1.0" >
  <title>Title of the slideshow</title>
  <audio>audio_url</audio>
  <slide-duration>30</slide-duration>
  <slides>
    <slide>slide_1_url</slide>
    <slide>slide_2_url</slide>
    <slide>slide_3_url</slide>
    <slide>slide_4_url</slide>
    <slide>slide_5_url</slide>
    <slide>slide_6_url</slide>
    ...
    <slide>slide_N-1_url</slide>
    <slide>slide_N_url</slide>
  </slides>
</philips-slideshow>
```



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### Supported XML-tags

The following table gives a description of the XML syntax.

| Tag Name | Use | Description |
|---|---|---|
| philips-slideshow | mandatory | Philips slideshow signature including the version. |
| title | optional | The title of the playlist. |
| audio | optional | The audio-URL following this tag will define the music playing in the background during the slideshow.<br>A single song or playlist (.m3u & .pls) are the only valid audio references. Other reference will not result in any audio playback. If a single song is referenced the song will be repeated forever. If a playlist is referenced the playlist will be played in sequence with a repeat at the end of the playlist. |
| slide-duration | optional | The default display time (in 0,1 second) of a slide. The TV application isn't obliged to support this tag. The TV application can force the use of one or multiple predefined display times. |
| slides | mandatory | Identifies the slides to show. |
| slide | optional | Identifies the URL of the individual slide. |



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# Annex 4 - Philips TV - Digital camera and USB issues

**Notes**:
- the latest version of this document can be found on the Philips support website (www.philips.com/support);
- the software of your TV is upgradeable. If you have problems first check if you have the latest software installed on your TV. The latest software, together with instructions, can be found on the Philips support website. Use the type number of your TV to find this documentation and other related files.
- Philips can't be held responsible neither for any errors in the content of this document nor for any problems as a result of the content in this document. Errors reported to Philips will be adapted and published on the Philips support website as soon as possible.

## Digital Camera Issues

If a USB connection between your digital camera and the TV isn't working, you can try the solutions below to resolve your problem.

- Make sure your digital camera is switched on and verify if the configuration of your digital camera is correct (see the manual of your digital camera for more information).
- Some digital cameras allow you to switch off the USB interface. Make sure that the USB interface is switched on before connecting to the TV.
- If you have a digital camera with only internal memory (no removable memory) you can try to copy the content manually to a USB memory device using a personal computer.
- Some digital cameras allow you to switch between PTP (Picture Transfer Protocol) or "PC Link" and USB Mass Storage. Make sure that you select USB Mass Storage or "PC Drive" on your digital camera.
- If your camera supports different interface settings be sure to try them one by one or contact the reseller of your camera to find out the correct setting.

## USB Memory Device Issues

- Devices connected to the USB port of your TV must be "Mass Storage Class" compliant. If your device (digital camera. MP3 player, portable harddisk, …) is not "Mass Storage Class" compliant it will not be detected by the content browser of the TV.
- The following subsets of the Mass Storage Class specification are supported:
  The implementation of the TV is based on the "Universal Serial Bus Mass Storage Class Specification Overview" (v1.2, June 23, 2003) including all documents referenced by the document. The document can be found on the USB standardisation website (www.usb.org).
  Full support of the USB Mass Storage Class Bulk-Only Transport (bInterfaceProtocol = 50h).
  Full support of SubClass Code = 05h; SFF-8070i spec.
  Full support of SubClass Code = 06h; SCSI transparent command set.
- For large USB memory devices, when you are in the Content Browser, it may take a long time before you can access your files.
- When using a USB portable harddisk: Due to the high power consumption of the harddisk, it is advised to use the external power supply of the portable harddisk to guarantee proper working under all conditions.

## Digital Content Issues

- Only FAT (DOS) formatted (initialized) portable memory is supported. Errors in this formatting can result in unreadable content. If such problems appear try to re-format the card. Be aware that formatting the card will also delete all the content on it (pictures, music, …).
- The maximum size of any multimedia file should never exceed 4Gbyte.
- Do not use a dot "." in folder naming.
- If video streams are supporting multiple audio tracks the first audio track will automatically be selected, the other audio tracks can't be selected.
- External subtitle files (e.g. DivX.srt subtitle files) are not supported.



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# Annex 5 - Issues referring to connected peripherals with a HDMI connector

The **HDMI IN** connector allows the following TV and monitor display modes:

| | | |
|---|---|---|
| **HD** | Standard Definition TV (SDTV) | 640x480i<br>720x480i<br>720x576i |
| | Enhanced Definition TV (EDTV) | 640x480p<br>720x480p<br>720x576p |
| | High Definition TV (HDTV) | 1920x1080i<br>1280x720p |

| | | |
|---|---|---|
| **PC** | VGA | 640x480 |
| | SVGA | 800x600 |
| | XGA | 1024x768 |

- If necessary, you can adjust the picture position to the centre of the screen with the cursor keys.
- Due to legal requirements, it is possible that with certain copy protected PCM audio qualities from a peripheral equipment connected to the **HDMI** input, the Digital audio output signal is muted.
- Your TV supports HDCP (High-bandwidth Digital Content Protection). This is a system for protecting DVD content outputted via HDMI from being copied. It provides a secure digital link between a video source (DVD, PC, etc.) and your TV. Content is encrypted at the source peripheral equipment to prevent unauthorised copies from being made.
- Proper working is only guaranteed with HDMI compliant consumer products.
- Digital peripheral equipments from different manufacturers have the possibility of differing output standards which may cause difficulties for the television to properly display.
- In case no signal is detected from your HDMI equipment, switch off the HDMI equipment and then on again.
  To get an optimal viewing, it is advised to switch your DVD player, Blu-Ray of HD settop box to the highest possible supported display modes.



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# Recycling

## Recycling

The packaging of this product is intended to be recycled. Apply to the local authorities for correct disposal.

### Disposal of your old product

Your product is designed and manufactured with highly quality material and components, which can be recycled and reused.

When this crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2002/96/EC.

Please inform yourself about the local separate collection system for electrical and electronic products. Please act according to your local rules and do not dispose of your old products with your normal household waste.

The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

## Disposal of batteries

The batteries supplied do not contain the heavy metals mercury and cadmium. Please check on how to dispose of exhausted batteries according to local regulations.

# Product information

- Your TV consumes energy in standby mode. Energy consumption contributes to air and water pollution. Very low standby power consumption.
- Specifications: see the product leaflet on www. philips. com/support.
- If you need further assistance, please call the customer support service in your country. The corresponding telephone numbers and addresses are given in the supplied Worldwide guarantee booklet.

| | | | | | |
|---|---|---|---|---|---|
| België / Belgique | | Ireland | | Portugal | |
| 070 222 303 | €0.17/min | 01 601 1777 | Local | 2 1359 1442 | Local |
| Danmark | | Italia | | Schweiz / Suisse / Svizzera | |
| 3525 8759 | Local | 199 404 041 | €0.25/min | 0844 800 544 | Local |
| Deutschland | | Luxembourg | | Svenska | |
| 0180 5 356 767 | €0.12/min | 40 6661 5644 | Local | 08 5792 9100 | Local |
| France | | Nederland | | Suomi | |
| 08 9165 0005 | €0.23/min | 0900 8407 | €0.20/min | 09 2311 3415 | Local |
| ΕΛΛΑΣ | | Norge | | United Kingdom | |
| 0 0800 3122 1280 | Δωρεάν | 2270 8111 | Local | 0906 1010016 | £0.15/min |
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connectedplanet

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## What is Connected Planet ?

Connected Planet provides easy access to digital pictures, video and music files on your PC. Please read the following instructions carefully and follow very closely and step by step the instructions.

## What do you need to enjoy Connected Planet ?

1. A network connection to your PC.
   *Note: Initially we will explain how to connect your TV to a wired network. Creating a wireless network connection is explained in Annex 1, p. 8.*
2. Install the Philips Media Manager (PMM) from the supplied connectedplanet CD on your PC.

**If you have problems or questions or if you feel you don't have sufficient knowledge about PC connectivity and PC networking, please contact your PC or TV retailer to assist you.**



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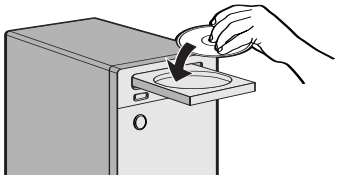
## Step 1: Installing the Philips Media Manager (PMM)



1. Insert the supplied connectedplanet CD into your computer's CD drive.
   *If the CD does not start automatically, double-click* ***My Computer****, then the CD-ROM drive icon and finally* ***start.htm*** *to start the CD.*

2. Please select your language, click on **Install Media Manager** and follow the on-screen instructions.
   *Notes:*
   - *If the screen Product Configuration appears, DO NOT tick WMA (Windows Media Audio) or WMV (Windows Media Video), as our TV does not support those contents.*
   - *You can install the PMM on more than one computer in your home network.*
   - *Make sure that the PMM is not blocked by the firewall installed on your PC.*

3. **Select your PMM menu language.**
   You can select among a few available languages in the Settings menu.

4. **Change the PMM server name**
   You can change the name of the PMM Server in the PMM Settings menu. This server name is important as it will be displayed on your TV when the PMM is detected. Possible names are "PC Study", "PC John", "PC bedroom".

5. Restart your PC after installing the PMM.



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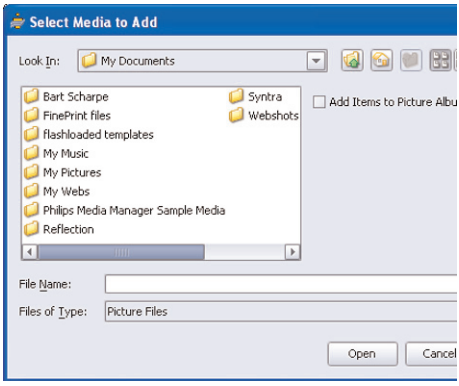


**Adding files in the Philips Media Manager (PMM)**

1. Select the PMM from your Windows Start-menu or double-click on the PMM symbol in the task bar.
2. Click on **Music**, **Pictures** or **Movies** at the top of the PMM window.
3. Select **Add Music**, **Add Pictures** or **Add Movies**.
4. Click on **Add Files or Folders... .**
5. Select a folder or one or more media files and click on **Open** to add the selected folder or files to the Media Manager window.



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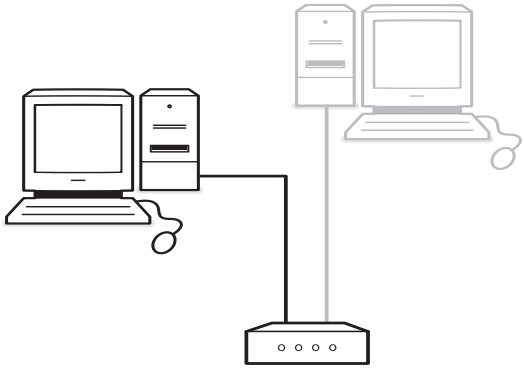
## Step 2: Identifying your PC configuration

We will focus on the two main PC configurations found in modern households today.
Check the glossary for explanations of technical terms used.

**OR**

## Configuration A

**Before connecting your TV**



You have

- a router
- one or more PCs connected to the router
- one free Ethernet connector on the router

Go to Connecting and configuring your TV, Configuration A, p. 5.

## Configuration B

*If feasible we advise to set up a router-based network as described in Configuration A before connecting your TV.*

**Before connecting your TV**

You have

- a PC with a free Ethernet connector.
  *Note: If you don't have a free Ethernet connector on your PC you will have to buy and install an extra Ethernet card.*

Go to Connecting and configuring your TV, Configuration B, p. 5.

**Connecting your TV to a single PC requires a special crossed network cable.**



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## Step 3: Connecting and configuring your TV

# Configuration A

Make sure DHCP/Auto IP (automatic network addressing) is enabled on your router and your PCs.

On most of the recently purchased PCs and routers, automatic network addressing is already enabled.

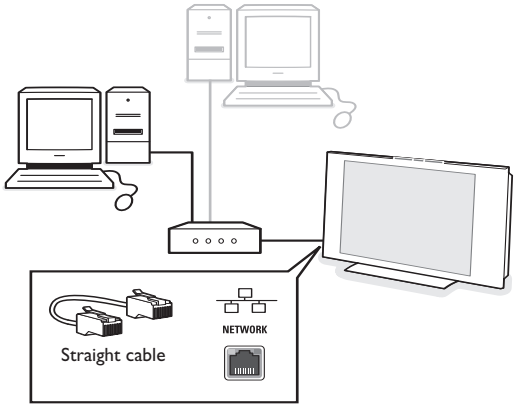
You can check this on your PC with the Network Utility on the supplied connectedplanet CD.

If DHCP/Auto IP is not enabled, see Annex 4, p. 14 to enable DHCP/Auto IP on your PC.

For enabling DHCP on your router, see the user manual of your router.

### Connecting your TV

1. Push one end of an Ethernet cable (**a straight cable**) into the **NETWORK** connector at the bottom of the TV.




2. Push the other end into a free Ethernet connector on your router.
3. Go to 'Viewing multimedia content' on p. 6 to test your connection.

# Configuration B

Make sure DHCP/Auto IP (automatic network addressing) is enabled on your PC.

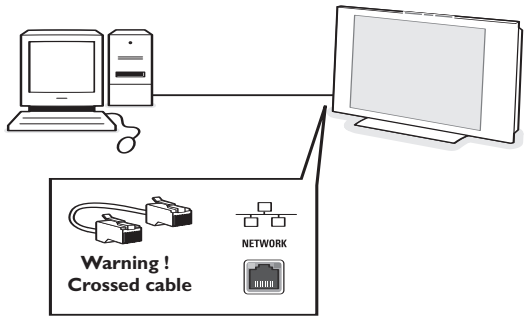
On most of the recently purchased PCs, automatic network addressing is already enabled.

You can check this on your PC with the Network Utility on the supplied connectedplanet CD.

If DHCP/Auto IP is not enabled, see Annex 4, p. 14 to enable DHCP/Auto IP on your PC.

### Connecting your TV

1. Push one end of a crossed Ethernet cable (**a crossed cable**) into the **NETWORK** connector at the bottom of the TV.




2. Push the other end into the free network connector on your PC.
3. Go to 'Viewing multimedia content' on p. 6 to test your connection.



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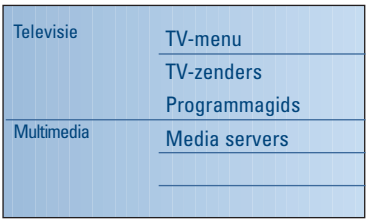
## Step 4: Viewing multimedia content

Make sure the PC with Philips Media Manager installed on it (see p. 2) is switched on.

1. Switch on your TV.
2. Press the **BROWSE/MENU** key on the remote control to display the Browse menu.
3. Select your PC from which you want to access the content and press the cursor right.




*Note: It may take up to 2 minutes after switching on the TV before your PC appears in the Browse menu.*

4. Use the cursor keys to navigate through the **Pictures**, **Music**, **Video** files or folders.

   folder

   picture file

   music file

   video file

5. Press the **OK** key to play the content.
6. Press the cursor left to display the content list again.



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- Use the colour keys on the remote control to perform the corresponding function mentioned at the bottom of the screen.
- Press any colour key or the i+ key to make the function bar at the bottom of the screen visible again.

**Function keys at the bottom of the screen**

| | |
|---|---|
| **Details** | to display a description of the selected file or directory; |
| **Transitions** | to select if a transition during a slide show should be applied; |
| **Slide time** | to select the duration a picture will be displayed in a slide show; |
| **Rotate** | to rotate a picture |
| **Repeat one/all** | to repeat the playback of a music file; |
| **Shuffle** | to shuffle music collections in a random way |
| **Zoom** | to select one of the zoom magnifications (x1, x2, x4) with the cursor keys up/down; Additionally you can shift the selected zoom window over the screen with the cursor keys left/right; |
| **Full/small screen** | to toggle between a full or a small screen. |

Multimedia browser functional keys:

| | |
|---|---|
| ■ | to stop playing your content |
| ▶▶ | for fast forward |
| ◀◀ | for rewind |
| ▶ | for play, for pause |
| **-P+** | to go to the next or previous media file |
| cursor up/down | to make subtitles visible |

See Troubleshooting (p. 20) in case of problems playing files or in case your PC does not appear in the Browse menu.

See Annex 5 (p. 17) for information about the supported file formats. If you create content, make sure it complies to these specifications.

*Note:*
*If a media file (music, picture or video) does not play or plays in poor quality:*
- *The file format may not be supported by the system. Play a media file with a supported file format.*
- *The quality of your media is low.Test the media on your PC to verify the quality.*



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## Annex 1 : Creating a wireless network connection

*If you have problems or questions or if you feel you don't have sufficient knowledge about PC connectivity and PC networking, please contact your PC or TV retailer to assist you.*

*Always try to reduce the number of wireless connections. You will in most cases not be able to stream video if both PC and TV are connected wireless to the network.*

*Consult the list of recommended wireless Ethernet bridges on the Philips support website: www.philips.com/support*

| Connection | Playback quality |
|---|---|
| Wired | Video ++++<br>Music ++++<br>Pictures ++++ |
| 8201.11a wireless | Video ++<br>Music +++<br>Pictures +++ |
| 802.11g wireless | Video +<br>Music +++<br>Pictures +++ |
| 802.11b wireless | Video -<br>Music +++<br>Pictures +++ |

To avoid implementation problems we recommend using a Wireless Access Point device (e.g. Philips CPWBS054) in combination with a wireless Ethernet bridge (also called a "Game adapter").

Wireless devices use a wireless protocol to communicate by means of radio waves. Wireless radio waves travel outwards from the antenna in all directions, and can transmit through walls and floors.
Wireless radio waves can theoretically reach up to 100 meters in an open environment. Practically it could be less than 10 meters depending on the type of walls and floors in your home and other environmental conditions. The content playback quality will depend on the wireless signal quality and the connection type.

*Notes:*

- *It is recommended to buy a Wireless Access Point supporting 802.11 a/b/g or b/g. The a-type devices are ideal for transferring good video quality and the g-type devices are sufficient for good audio quality. The b-type devices are not suitable for good video streaming.*
- *Do not use an ad-hoc wireless connection (TV-PC) as it limits your bandwidth.*


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# Configuring a wireless Ethernet bridge

| |
|---|
| Network name (SSID): |
| WEP key 1: |
| WEP key 2: |
| WEP key 3: |
| WEP key 4: |
| WPA key: |
| |
| |

Make sure DHCP/Auto IP (automatic network addressing) is enabled on ALL your network devices (Wireless Access Point, PCs).

*Note: Nowadays the functionality of a Wireless Access Point and a router are mostly combined into one box. If this is not the case, the installation may slightly differ from the instructions below.*

1. Enable DHCP/Auto IP on ALL your PCs.
   You can check this on your PC with the network identification tool. See Tools, Network Utility on the supplied CD.
   If DHCP/Auto IP is not enabled, see Annex 4, p. 14 to enable DHCP/Auto IP on your PC.
2. Enable DHCP/Auto IP on your Wireless Access Point, see the user manual of your router.

**Preparing your network**

1. First check and write down the settings of your Wireless Access Point. You need the SSID, WEP key(s) or WPA key(s).
   *Note: It is possible that your WEP or WPA keys are hidden.*
2. To simplify the configuration procedure temporarily remove the security of your wireless network (if enabled). Consult the user manual of your Wireless Access Point to make the following settings:
   • Switch on the SSID broadcast.
   • Switch off wireless security (WEP/WPA keys).
   • Switch off MAC filtering.

*Note: Also switch off the wireless security (WEP/WPA keys) of your wireless PC driver.*



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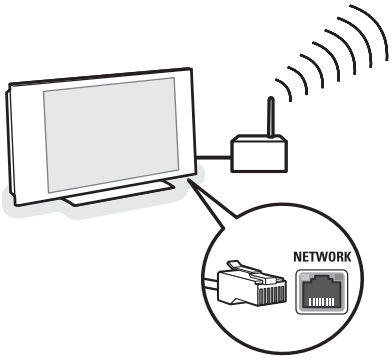
*More details on configuring the recommended wireless Ethernet bridges can be found on the Philips support website: www.philips.com/support*




## Configuring the wireless Ethernet bridge

1. Disconnect your PC from your network.
   - In case of a wireless USB dongle, remove the dongle from your PC.
   - In case of an integrated wireless network adapter (e.g. laptop PC), disable the network adapter.
   - In case your PC has a wired connection, unplug the Ethernet cable from your PC.
2. Connect the wireless Ethernet bridge to your PC.
3. Consult the user manual supplied with the wireless Ethernet bridge to configure your device.
   The following settings need to be applied:
   - Password (see access point documentation)
     *Note: Do not change any passwords at this time.*
   - Infrastructure (access point) mode
   - SSID-name of your wireless network
   - DHCP/Auto IP enabled
   - Security encryption disabled

   If your PC can connect to the Internet using a web browser, the wireless Ethernet bridge is configured correctly.
   *Notes:*
   - *After configuring your wireless Ethernet bridge you may need to wait a while before the connection is active. You may even have to restart the bridge.*
   - *How to restart the bridge, consult the user manual of the bridge. The user manual will also explain the meaning of the different indicators ( LEDs) on your bridge and how they should behave after powering the bridge.*
   - *If you don't succeed to browse the Internet using your wireless Ehternet bridge, please contact the retailer of the bridge (instead of Philips).*
4. Disconnect your wireless Ethernet bridge from the PC and connect it to the **NETWORK** connection at the bottom of your TV.
5. Reconnect your PC to your network.

### Testing the wireless Ethernet bridge

1. Make sure the wireless Ethernet bridge is connected to the **NETWORK** connection at the bottom of your TV.
2. Switch on your TV.
3. See "Testing your connection" on p. 9.



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## Re-securing your wireless network

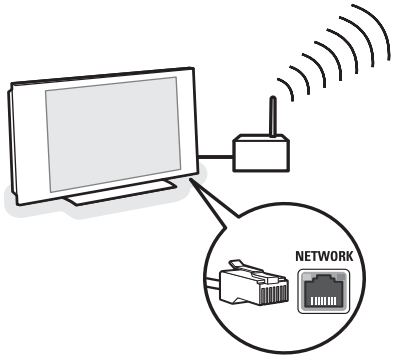
*Also see Annex 2:Wireless network security, p. 12.*

1. Consult the user manual of your Wireless Access Point to apply its security setting according to the details you wrote down earlier.
   - Switch off the SSID broadcast.
   - Switch on wireless security (WEP/WPA keys).

   *Note: If you don't have your WEP/WPA keys you will need to create new ones and apply them to all wireless devices connected to your wireless network.*
2. Disconnect your PC from your network.
   - In case of a wireless USB dongle, remove the dongle from your PC.
   - In case of an integrated wireless network adapter (e.g. laptop PC), disable the network adapter.
   - In case your PC has a wired connection, unplug the Ethernet cable from your PC.
3. Connect the wireless Ethernet bridge to your PC.
4. Consult the user manual supplied with the wireless Ethernet bridge to configure your device according to your current wireless network settings.
   If your PC can connect to the Internet using a web browser, the wireless Ethernet bridge is configured correctly.

   *Note: After configuring your wireless Ethernet bridge you may need to wait a while before the connection is active.You may even have to restart the bridge.*
5. Disconnect your wireless Ethernet bridge from the PC and connect it to the **NETWORK** connection at the bottom of your TV.
6. Reconnect your PC to your network.

   *Note: Also switch on the wireless security (WEP/WPA keys) of your wireless PC driver.*



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## Annex 2 : Wireless network security

***Attention***

*Since wireless computer networks use radio signals, it is possible for other wireless network devices outside your immediate area to pick up the wireless signals and either connect to your network or to capture the network traffic.*
*Consult the user manual supplied with your wireless Access point or wireless Ethernet bridge for further information.*

**DO**

- Viruses, spyware and other malicious programs can undermine the security of your network. Use the appropriate software to protect your PC from these threats.
- Change the default passwords for your network devices. Leaving these at default makes it easy for an outsider to gain access.
  *Note: If you change passwords, write them down and store them in a safe location.*
- Use a router or a Wireless Access Point with Network Address Translation (NAT) or a firewall.
- In a wireless network, enable the highest WEP key level that your hardware provides for. Upgrade your hardware, if possible. If you do not protect your wireless network, all data from your PC might be accessible to, for example, your neighbours or passers-by.
- Switch off SSID broadcast on the Wireless Access Point.
- Position your Wireless Access Point away from windows and towards the centre of your home. This decreases the strenght of the signal outside your home.
- Some access points can control access based on the unique MAC address of the network devices trying to connect to it. See the documentation of your network devices to retrieve the MAC addresses.
  For the MAC address of your TV, see Annex 3, Manual Network Installation,View Network settings, p.13.

**DON'T**

- Don't rely on radio transmission range limitations to secure your network.
- Don't use WEP/WPA keys and passwords that are easy to guess.
- Don't use passphrases to secure your wireless network as incompatibility with other brands of wireless network devices may occur.


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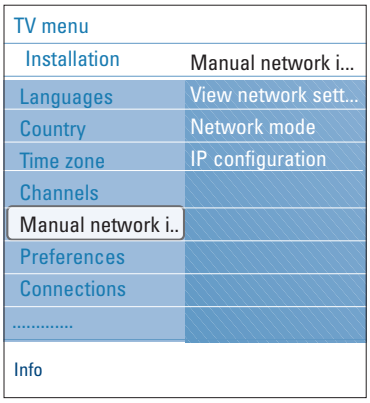
## Annex 3 : Configuring your network settings manually

*Attention: If you have problems or questions or if you feel you don't have sufficient knowledge about PC connectivity and PC networking, please contact your PC or TV retailer to assist you.*




This menu allows you to do the network installation yourself and to determine your own network configuration.

1. Select **Manual network installation** in the Installation menu.
2. Press the cursor right to enter the Manual network installation menu.
   According to your personal network setup, the available menu items are present and can be selected.
3. Read and follow the menu-info at the bottom of the screen to execute the requested actions.

### View network settings

This will display the current values of the network parameters associated with the network.

### Network mode

This allows you to select your network configuration mode.
Choose **DHCP & Auto IP** for automatic network configuration by your router or wireless access point (preferred).
Choose **Static IP** for manually entering a static network configuration. Proceed with IP configuration.

### IP configuration

This allows you to enter your IP configuration settings if you selected Static IP in the Network mode menu:

- **IP address**: you are prompted to enter a fixed IP address that the TV will use in your network. Preferably choose one from the range:
  192.168.0.xxx or
  192.168.123.xxx or
  10.0.0.xxx
- **Subnet mask**: you are prompted to enter the subnet mask address of your network.
  Enter the same subnet mask throughout your network, e.g. 225.225.255.0

*__DHCP/Auto IP__ or automatic network addressing is a protocol used to automatically connect network devices to a network. Please, refer to your router or wireless access point's hardware instructions to see if this is supported.*

*__Static (or fixed) IP address__: This is an IP address that your TV will always use to connect to your home network. When DHCP/Auto IP is not available, you can set a static IP address on your TV.*

*A __Subnet mask__ is used to define a subnet which is separated from all other networks by a router. The subnet mask indicates which part of the IP address is on the local network, and which must go out through the router.*



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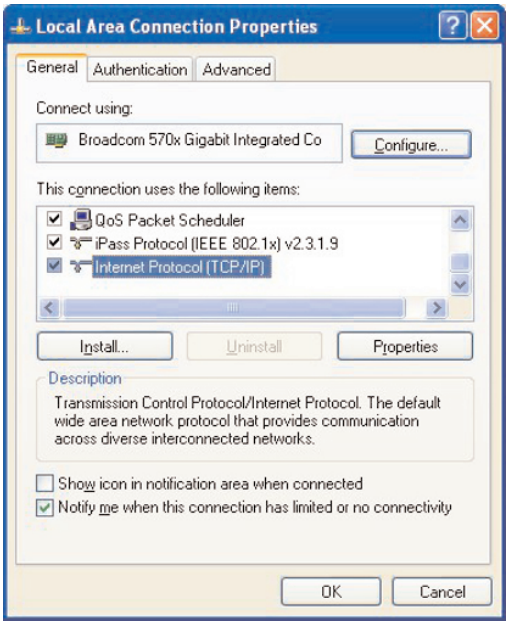
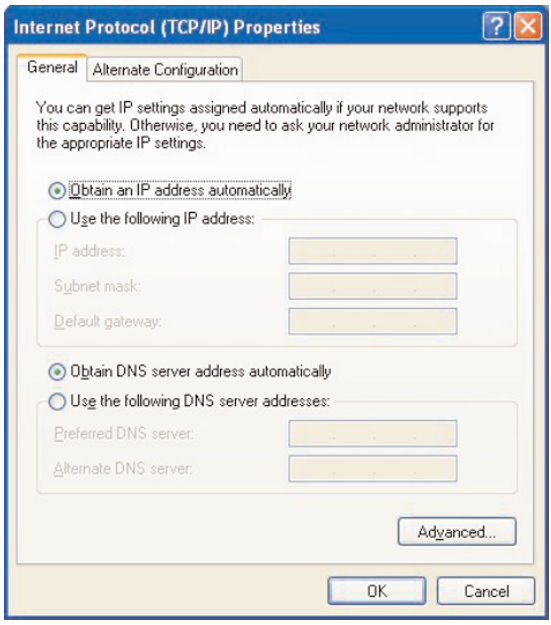
## Annex 4 : Enabling DHCP/Auto IP on your computer

### Windows XP

1. On the Windows desktop, click **Start** and select **Control Panel**.
2. In the Control Panel window, click **Network and Internet Connections**.
3. The Network Connections window will open. Double-click on the LAN-connection for this PC.
4. On the connection status screen, click **Properties**.
5. Double-click **Internet Protocol** (TCP/IP).
6. If **Obtain an IP address automatically** and **Obtain DNS server address automatically** are selected, your computer is already configured for DHCP/Auto IP. If not, select these options.





Internet Protocol (TCP/IP) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

### Windows 2000

1. On the Windows desktop, click **Start > Settings > Network and Dial-Up Connections**.
2. Click the icon that corresponds to the LAN-connection for this PC.
3. The connection status screen will open. Click **Properties**.
4. Double-click **Internet Protocol (TCP/IP)**.
5. If **Obtain an IP address automatically** and **Obtain DNS server address automatically** are already selected, your computer is already configured for DHCP/Auto IP. If not, select these options.

   For the screen dumps, see those as for Windows XP above.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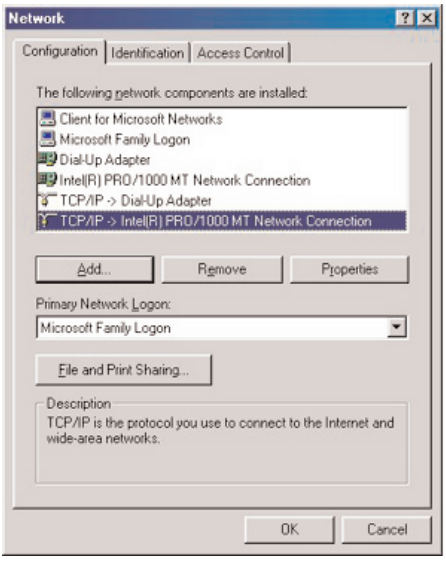
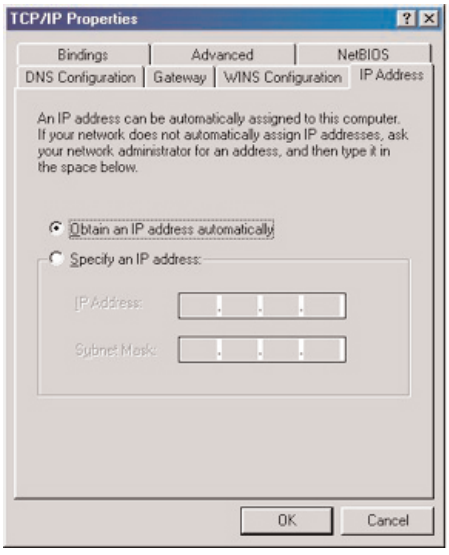
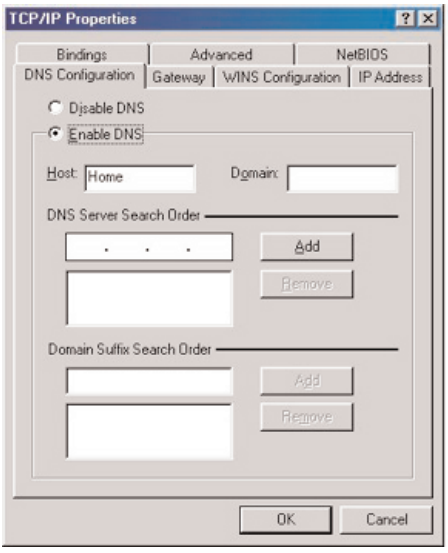
**Windows 98/Me**

You may find that the instructions in this section do not exactly match your version of Windows. This is because these steps and screen shots were created from Windows 98. Windows Millennium Edition is similar, but not identical, to Windows 98.

1. On the Windows desktop, click **Start > Settings > Control Panel**.
2. In the Control Panel, double-click the Network icon.
3. In the Network window, under the **Configuration** tab, double-click the **TCP/IP** item listed for your network card.
4. In the TCP/IP window, select the **IP Address** tab. If **Obtain an IP address automatically** is already selected, your computer is already configured for DHCP/Auto IP. If not, select this option.
5. If you changed the settings in the IP address tab, also select the DNS Configuration tab and select the option **Enable DNS**.
   You will be requested for the **Host** name.
   Enter **Home** or any other preferred name.
6. Windows may need your Windows 98/Me CD to copy some files.
   After it finishes copying, it will prompt you to restart your system.
   Click **Yes** and your computer will restart.





TCP/IP Properties
Bindings
Advanced
NetBIOS
DNS Configuration
Gateway
WINS Configuration
IP Address
An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space below.
Obtain an IP address automatically
Specify an IP address:
IP Address:
Subnet Mask:
OK
Cancel



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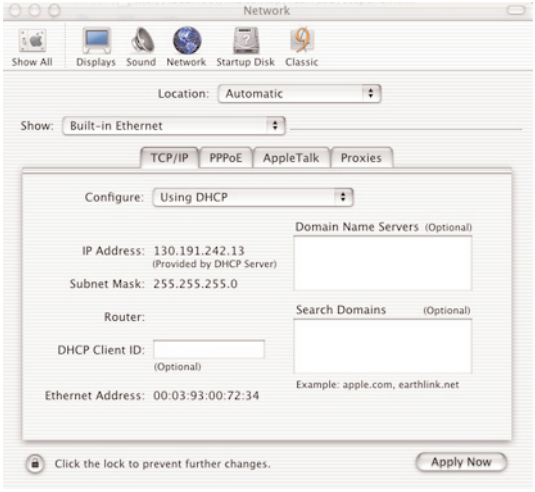
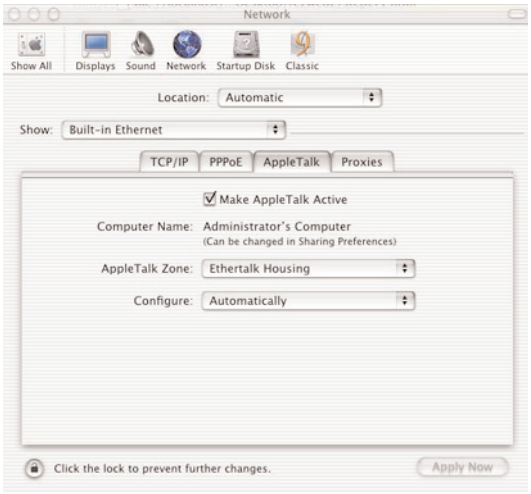
## Apple Macintosh Computers

### Mac OS 10.x

You may find that the instructions here do not exactly match your operating system.This is because these steps were created using Mac OS 10.3. Earlier or later versions of Mac OS 10 will be similar, but may not be identical.

1. Pull down the Apple Menu.
2. Select **System Preferences..** .
3. Click on the Network icon under **Internet & Network**.
4. Click on **Configure..** .
5. If **Using DHCP/Auto IP** is already selected in the Configure field, your computer is already configured for DHCP/Auto IP. If not, select this option and close the Network window.

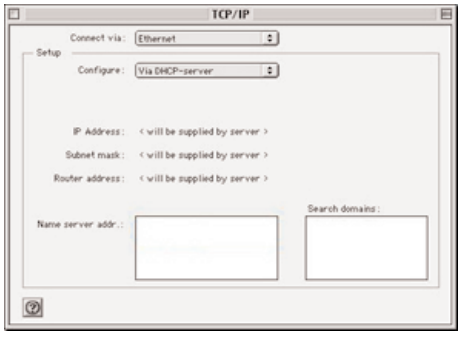



### Mac OS 9.x

You may find that the instructions here do not exactly match your operating system.This is because these steps were created using Mac OS 9.2. Earlier versions of Mac OS will be similar, but may not be identical.

1. Pull down the Apple Menu.
2. Under **Control Panels** select **TCP/IP**.
3. If **Via DHCP-server** is already selected in the **Configure** field, your computer is already configured for DHCP. If not, select this option and close the TCP/IP control panel.



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## Annex 5 : Supported file formats

A codec (encoder/decoder) is a technology for compressing and decompressing data. Codecs convert digital signals to and from analog, and can be implemented in software, hardware, or a combination of both. Standard codecs are used to encode and compress audio and video data for streaming across networks.

### Overview

- Supported Video multimedia files: MPEG1, MPEG2, MPEG4, DivX & XviD
- Supported Audio multimedia files: MP3, MP3Pro & LPCM
- Supported Picture multimedia files: JPEG

### Supported Extensions

| Content type | Supported File ExtensionsContent |
|---|---|
| **Pictures** | |
| JPEG | .jpg .jpeg |
| **Audio** | |
| MP3 & MP3Pro | .mp3 |
| LPCM | .wav (PC); .aif .aiff (MAC) |
| **Video** | |
| MPEG1 | .mpg .mpeg |
| MPEG2 | .mpg .mpeg .vob |
| MPEG4 | .mp4 |
| DivX | .avi .divx |
| XviD | .avi .xvid |
| **Playlist & Slideshows** | |
| Audio | .pls .m3u |
| Pictures | .alb (only from Memory Card or USB) |

### Supported Audio Streams

| Content Group | Content Type | Supported Audio Streams |
|---|---|---|
| **Audio Files** | MP3 | MPEG1/2 & 2.5 Layer III |
| | MP3 Pro | MP3 Pro |
| | LPCM | LPCM audio/L16 |
| **Video Files** | MPEG1 | MPEG1 Layer I, Layer II |
| | MPEG2 | MPEG1 Layer I, Layer II and AC-3 |
| | MPEG4 | AAC4 and CELP4 |
| | DivX | MPEG1 Layer III and AC-3 |
| | XviD | MPEG1 Layer III and AC-3 |

### Detailed Picture codec specifications

| Content Type | Sample Rate | Restrictions |
|---|---|---|
| JPEG | All resolutions and aspect ratios with a maximum of 16 Mpixels JFIF, EXIF & SPIFF encapsul. | Only linear JPEG encoding is supported. All progressive formats are not supported. Only 3 colour spaces pictures are supported (e.g. RGB or YUV). CMYK encoded pictures are not supported. Pictures with a resolution smaller than 16x16 pixels are not supported. |



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**Detailed Audio codec specifications**

| Content Type | Sample Rate | Restrictions |
|---|---|---|
| MP3 | MPEG1 Layer I: 32, 44.1 & 48 kHz | 32, 64, 96, 128, 160, 192, 224, 256, 288, 320, 352, 384, 416 & 448 kbps |
| | MPEG1 Layer II: 32, 44.1 & 48 kHz | 32, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320 & 384 kbps |
| | MPEG1 Layer III: 32, 44.1 & 48 kHz | 32, 40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320 kbps |
| | MPEG2 Layer I: 16, 22.05 & 24 kHz | 32, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256 kbps |
| | MPEG2 Layer II: 16, 22.05 & 24 kHz | 8, 16, 24, 32, 40, 48, 56, 64, 80, 96, 112, 128, 144, 160 kbps |
| | MPEG2 Layer III: 16, 22.05 & 24 kHz | 8, 16, 24, 32, 40, 48, 56, 64, 80, 96, 112, 128, 144, 160 kbps |
| | MPEG2.5 Layer III: 8, 11.025 & 12 kHz | 8, 16, 24, 32, 40, 48, 56, 64, 80, 96, 112, 128, 144, 160 kbps |
| MP3Pro | 8, 11.025, 12, 16, 22.05, 24, 32, 44.1 & 48 kHz | For Stereo streams: 32, 40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256 and 320 kbps<br>For Mono Streams: 8, 16, 18, 20, 24, 32, 40, 48 kbps |
| LPCM | 16, 22.05, 24, 32, 44.1 & 48 kHz | Bit resolution: 16-bit and 32-bit<br>Channels: Mono & Stereo. |
| AC3 | 32, 44.1 & 48 kHz | From 32 kbps up to 640 kbps |
| AAC4 | 16, 22.05, 24, 32, 44.1 & 48 kHz | For mono from 16 kbps up to 288 kbps<br>For stereo from 32 kbps up to 288 kbps |
| CELP4 | 7.350, 8 &16 kHz | From 3.85 kbps up to 24 kbps |

**Detailed Video codec specifications**

| Content Type | Resolution | Restrictions |
|---|---|---|
| MPEG1 | All aspect ratios up to CIF resolution:<br>Typical values are:<br>QCIF - 176x144 (PAL) - 176x120 (NTSC)<br>CIF - 352x288 (PAL) - 352x240 (NTSC) | Maximum 1.5 Mbps |
| MPEG2 | ML@MP video up to D1 resolution.<br>Typical values are:<br>704 or 720x576 at 25 fps (PAL) 50 Hz.<br>704 or 720x480<br>at 29.97 fps (NTSC) 59,94 Hz. | Max 8Mbps over through a network connection with a maximum jitter of 1 sec and 4 Mbps over an internal connection with a maximum jitter of 4 seconds. |
| MPEG4 | All aspect ratios up to D1 resolution.<br>Typical values are:<br>QCIF - 176x144 (PAL) - 176x120 (NTSC)<br>CIF - 352x288 (PAL) - 352x240 (NTSC)<br>HD1 - 352x576 (PAL) - 352x480 (NTSC)<br>D1 - 720x576 (PAL) - 720x480 (NTSC) | Max 4Mbps over through a network connection with a maximum jitter of 1 sec and 4 Mbps over an internal connection with a maximum jitter of 4 seconds<br>Maximum movie length 20 minutes. |
| DivX | Support for DivX v4 & v5<br>All aspect ratios up to D1 resolution.<br>Typical values are:<br>QCIF - 176x144 (PAL) - 176x120 (NTSC)<br>CIF - 352x288 (PAL) - 352x240 (NTSC)<br>HD1 - 352x576 (PAL) - 352x480 (NTSC)<br>D1 - 720x576 (PAL) - 720x480 (NTSC) | Max 4Mbps over through a network connection with a maximum jitter of 1 sec.<br>Trick modes (FF, REW, …) are not supported if the size of the multimedia file exceeds 2Gbyte.<br>No support for DivX v3.11. |
| XviD | All aspect ratios up to D1 resolution.<br>Typical values are:<br>QCIF - 176x144 (PAL) - 176x120 (NTSC)<br>CIF - 352x288 (PAL) - 352x240 (NTSC)<br>HD1 - 352x576 (PAL) - 352x480 (NTSC)<br>D1 - 720x576 (PAL) - 720x480 (NTSC) | Max 4Mbps over through a network connection with a maximum jitter of 1 sec . |

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**General restrictions**

- The maximum size of any multimedia file should never exceed 4Gbyte.
- Do not use a dot "." in folder naming.
- The minimum bitrate for ALL video streams formats is 256kbps. Any stream with a bitrate lower than 256kbps can result in visual artifacts and stopping video.
- The maximum bitrate for streaming content (audio & video) can be restricted by the bandwidth of your local wired or wireless network. The bandwidth (performance) of your PC or USB device can also limit the maximum bandwidth available for streaming. The numbers in the tables above are only an indication of the maxima as defined by the TV system connected through a wired Ethernet connection.
- If video streams are supporting multiple audio tracks the first audio track will automatically be selected, the other audio tracks can't be selected.
- External subtitle files (e.g. DivX.srt subtitle files), internal(VOB) are not supported.

**Network related restrictions**

- The length of a filename, including the directory path, should not exceed 500 characters for network (PC) based content.
- The maximum bitrate for streaming content (audio and video) can be restricted by the bandwidth of your local wired or wireless network. The bandwidth (performance) of your PC or USB device can also limit the maximum bandwidth available for streaming. The numbers in the tables above are only an indication of the maxima as defined by the TV system connected through a wired Ethernet connection.

**Memory Card and USB related restrictions**

- Only FAT (DOS) formatted (initialized) portable memory is supported. Errors in this formatting can result in unreadable content. If such problems appear try to re-format the card. Be aware that formatting the card will also delete all the content on it (pictures, music, …).
- The following file types are supported: .jpg, .jpeg, .mp3, .alb, .m3u and .pls.
- Only linear JPEG picture formats are supported. Progressive JPEG encodings are not supported.
- The length of a filename or directory name is limited to the length specified by the FAT12/16/32 file systems.
- Max. levels of nested directories is 19.
- Never use the supported file type extensions (.jpg, .jpeg, .mp3, .alb, .m3u and .pls) as extensions for directories as these directories will be treated as corrupted files.
- The MP3 decoder does not support MPEG1 Layer 1 or Layer 2 playback.
- The access and response time of the content on a device can differ depending on the type or brand of the device.
- The access and response time of the content on a device will decrease the more unsupported or corrupted files are on the device.
- The length of the filename including the directory path and USB device name should not exceed 250 characters for USB or Memory Card based content.

**Remark**

Future upgrades of these codec specifications become available through software upgrades on the www.philips.com/support website. How to upload a new software versions, see Annex 1, p. 8 of the extended manual on the supplied CD.



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## Troubleshooting

| Problem | Possible cause | Solution |
|---|---|---|
| The Installation CD will not start. | • Autorun is disabled on your PC. | Double-click 'My Computer', then the CDROM drive icon and finally 'Philips.pdf' to start the CD. |
| The software will not install. | • Wrong operating system. | Go to www.philips.com/support to see which operating systems are supported. |
| My PC is not detected in the **Browse** menu.<br><br>(**Media servers** is displayed) | • PC is switched off.<br>• The Philips Media Manager software is not running.<br>• No wireless network adapter connected.<br>• Network host (PC) or wireless station base is switched off.<br>• Your wireless access point/ router employs MAC filtering and prevents the TV from connecting to your network.<br>• Your TV is not connected properly to the network. | • Switch on your PC.<br>• Start the Philips Media Manager software.<br>• Connect the wireless network adapter to your PC.<br>• Make sure your home network is operational before you try to connect a networked computer with your TV.<br>• Add your TV's MAC address to the list of devices that may connect to your wireless access point/ router. See the user manual that came with your wireless access point/router for instruction on how to do this.<br>• Select Media servers and press the **OK** key. Follow the instructions on screen. |
| I can't see the files on my PC. | • No files were added in the Philips Media Manager.<br>• Media format not supported | • Check that files have been added using the Philips Media Manager.<br>• Go to www.philips.com/support to check for the latest information on supported formats. |
| No wireless connection or intermittent drop-out of the wireless connection. | • Wireless signal range, speed, and strength can be affected by interference from neighbouring wireless networks and devices. Electro-magnetic devices such as televisions, radios, micro-wave ovens, and cordless telephones, especially those with frequencies in the 2.4 GHz range, may also interfere with wireless transmission. | Switch off wireless devices that interfere with your wireless network connection.<br>Place the wireless access point as high and centrally as possible to improve signal strength.<br>Always try to reduce the number of wireless connections. You wiill in most cases not be able to stream video if both PC and TV are connected wireless to the network.<br>Keep access point and Ehternet bridge away from large metal objects. |
| New features as advertised on the Internet are not available. | • You are using an older software version that does not have those features. | Upgrade the TV software. See your TV user manual. Also check for the latest version of the Philips Media Manager software (see www.philips.com/support). |


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## Glossary

**Access point**: This is a wireless device that is often added to a wired network to enable wireless operation. It can also be used in an ad-hoc network configuration.

**Ad-Hoc network**: A direct network connection between two devices ( two PCs, or a PC and a TV).

**DHCP**: Refers to Dynamic Host Configuration Protocol used by many routers to automatically connect computers to the network. Please, refer to your router or gateway hardware instructions to see if this is supported.
The router acts as a DHCP server. This server allocates IP addresses, netmasks, and the gateway address to all DHCP client computers and devices in the network automatically.

**DNS**: The Domain Name System is a distributed Internet directory service. DNS is used mostly to translate between domain names and IP addresses, and to control e-mail delivery.

**DivX 4, DivX 5, XviD**: a digital video compression format based on the MPEG-4 technology, used mainly for downloadable movies on the Internet.

**Ethernet**: Ethernet is a well-established local area networking standard, and is incorporated into (or available for) most computers.

**Firewall**: A firewall acts as a barrier that helps protect your network from intruders from the Internet. The firewall specifies what information can be communicated from the computers on your network to the Internet, and from the Internet to the computers on your network.

**Gateway**: The address of the upper device that has a connection to the Internet.
A Gateway router is a network component that attaches to your cable or ADSL modem. It allows multiple computers or other devices to be connected together and to share the same broadband Internet connection.
(A wireless router is required for wireless connection.)

**Home network**: A network is a wired or wireless connection between two or more devices. Home networks allow you to connect computers together to share files and an Internet connection.

**IP address**: Internet Protocol. The language by which systems inter-communicate over the Internet, each system having a unique "IP Address" by which it may be identified.

IP addresses uniquely
identify every network or host on the Internet. Every computer in a network has a unique IP address.

**MAC address**: (Media Access Control address) Each device (e.g. PC Ethernet card, router, wireless Ethernet adapter, ...) that can be connected to a network has a unique hardware address.

**MP3**: A popular standard audio compression format used on the Internet. Most commonly used to play audio on computer.

**MP3 Pro**: A newer MP3 format. Offers an improvement in compressed sound quality.

**MPEG 4**: standard for audio/video compression, with higher compression rate than MPEG 2.

**Netmask**: A netmask is used to define a sub-net which is separated from all other networks by a router. The netmask indicates which part of the IP address is on the local network, and which must go out through the router.

**PC Link**: PC Link is a feature that enables you to transfer music, picture or movie files from the computer(s) on your home network to your TV. You need to install the Philips Media Manager software to use PC Link.

**Philips Media Manager**: The software you need to install and have active on your PC to be able to access music, pictures and video on your PC.

**PMM**: Philips Media Manager.

**Router**: A device that does the interconnecting of networks. Its job is to coordinate and filter traffic between the networks. ( E.g. your home network and the Internet)

**SSID**: The name of your wireless network.
Stream: A transmission of music or video that is played instantly and not stored locally.

**WEP**: Designates a type of wireless encrytion.

**WiFi**: The international leading industry standard for wireless broadband networking. Also called IEEE 802.11.

**Wireless access point**: This is a wireless device that is often added to a wired network to enable wireless operation. It can also be used in a ad-hoc network configuration.



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